

2. SCIAMACHY Daily Report for Level 2 products

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2.1 General Info

This report contains a daily analysis on parameters extracted from SCIAMACHY Level 2 data (the SCI_OL__2P product).

2.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

Item	Value
Report version	1.13 (28-02-2011)
Time of report generation	09OCT2011 03:17:45
Data source version	SCIA-OL/5.02-W
Processing scope for products	26SEP2011 00:00:00 to 27SEP2011 00:00:00
Start time of first product within scope	25SEP2011 23:51:33
Stop time of last product within scope	27SEP2011 00:13:32
Total number of level 2 products	15
Number of level 2 products with errors	0

2.1.2 Summary per product

The following table shows a summary for each product used in this report.

Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

Products are checked for a minimum duration of 3500.0000 seconds and a maximum duration of 6000.0000 seconds. Products failing the duration test are highlighted in bold, and their stop time is highlighted in red.

#	Product name	Start time	Stop time	Prod err	Fit summary
0	SCI_OL__2PWDPA20110925_235133_000035163107_00045_50059_5152.N1	25SEP2011 23:51:33	26SEP2011 00:50:09	0	GOOD
1	SCI_OL__2PWDPA20110926_013147_000034613107_00046_50060_5153.N1	26SEP2011 01:31:47	26SEP2011 02:29:29	0	GOOD
2	SCI_OL__2PWDPA20110926_031202_000035163107_00047_50061_5154.N1	26SEP2011 03:12:02	26SEP2011 04:10:38	0	GOOD
3	SCI_OL__2PWDPA20110926_045216_000034613107_00048_50062_5161.N1	26SEP2011 04:52:16	26SEP2011 05:49:58	0	GOOD
4	SCI_OL__2PWDPA20110926_063231_000035163107_00049_50063_5155.N1	26SEP2011 06:32:31	26SEP2011 07:31:07	0	GOOD

5	SCI_OL__2PWDP	20110926_081245_000034613107_00050_50064_5162.N1	26SEP2011 08:12:45	26SEP2011 09:10:27	0	GOOD
6	SCI_OL__2PWDP	20110926_095300_000035163107_00051_50065_5163.N1	26SEP2011 09:53:00	26SEP2011 10:51:36	0	GOOD
7	SCI_OL__2PWDP	20110926_113314_000034613107_00052_50066_5164.N1	26SEP2011 11:33:14	26SEP2011 12:30:56	0	GOOD
8	SCI_OL__2PWDP	20110926_131329_000035163107_00053_50067_5165.N1	26SEP2011 13:13:29	26SEP2011 14:12:05	0	GOOD
9	SCI_OL__2PWDP	20110926_145343_000034613107_00054_50068_5166.N1	26SEP2011 14:53:43	26SEP2011 15:51:25	0	GOOD
10	SCI_OL__2PWDP	20110926_163358_000035163107_00055_50069_5167.N1	26SEP2011 16:33:58	26SEP2011 17:32:34	0	GOOD
11	SCI_OL__2PWDP	20110926_181425_000034613107_00056_50070_5190.N1	26SEP2011 18:14:25	26SEP2011 19:12:07	0	GOOD
12	SCI_OL__2PWDP	20110926_195440_000034473107_00057_50071_5168.N1	26SEP2011 19:54:40	26SEP2011 20:52:07	0	GOOD
13	SCI_OL__2PWDP	20110926_213441_000033933107_00058_50072_5169.N1	26SEP2011 21:34:41	26SEP2011 22:31:15	0	GOOD
14	SCI_OL__2PWDP	20110926_231456_000035163107_00059_50073_5170.N1	26SEP2011 23:14:56	27SEP2011 00:13:32	0	GOOD

2.2 Product Quality Indicators

2.2.1 Cloud parameters

This section shows information about the cloud parameters estimation, in particular cloud fractions and cloud top height. IMPORTANT NOTE: The contents and layout of this section are still being validated. Please use with caution.

General statistics:

Total number of cloud data DSRs: 163054

Total number of cloud data DSRs with good quality flag (=0): 163054 (100.0 %)

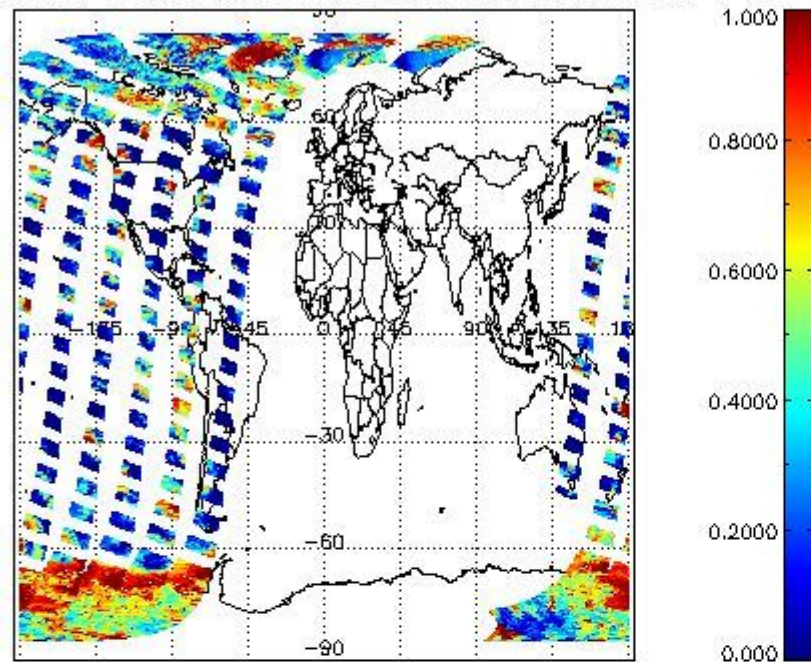
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	163054	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	163054	0.16815	0.12500	0.12500	0.25000	0.059430	s
CL_FRAC	163054	0.42120	0.39908	0.0000	1.0000	0.32830	
CL_FRAC_ERR	163054	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	163054	5.3809	4.0000	4.0000	8.0000	1.9018	
PMD_READ_CL[0]	163054	0.47818	0.0000	0.0000	8.0000	1.2807	-
PMD_READ_CL[1]	163054	1.4791	0.0000	0.0000	8.0000	2.7263	-
CL_TOP_HEIGHT	132079	3.6058	1.8630	0.0000	17.000	4.1423	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	132079	60.661	80.544	0.0000	101.00	42.729	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	163054	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	163054	11001101	11000100	11000000	11100000	3545.1	
AERO_ABSO_IND	163054	0.17653	0.0000	0.0000	5.7555	0.43201	
AERO_IND_DIAG	163054	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	163054	01011000	00000000	00000000	11000000	24505.	

Time and geolocation plots:

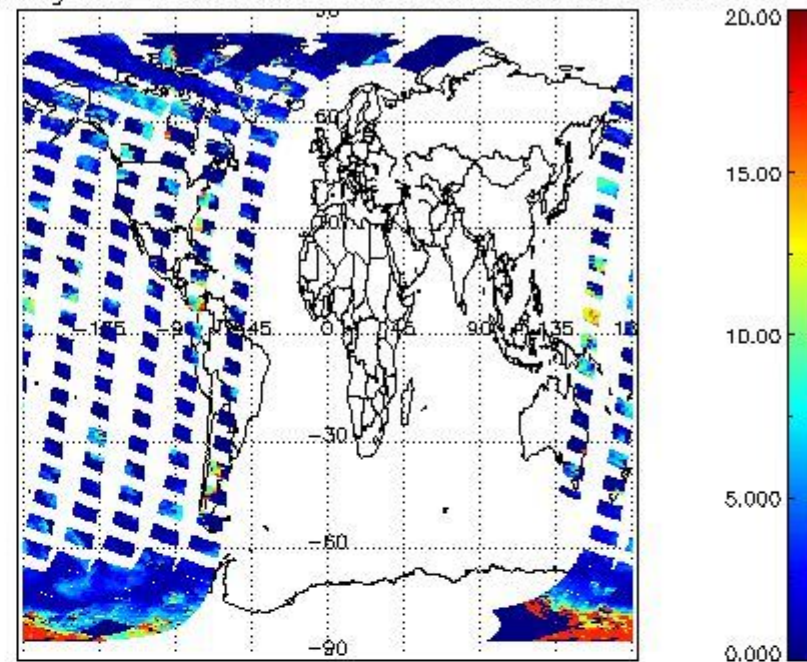
Plots are available for the following parameters:

Number	Data item ID
0	cl_frac
1	cl_top_height
2	cl_opt_depth
3	cloud_flags

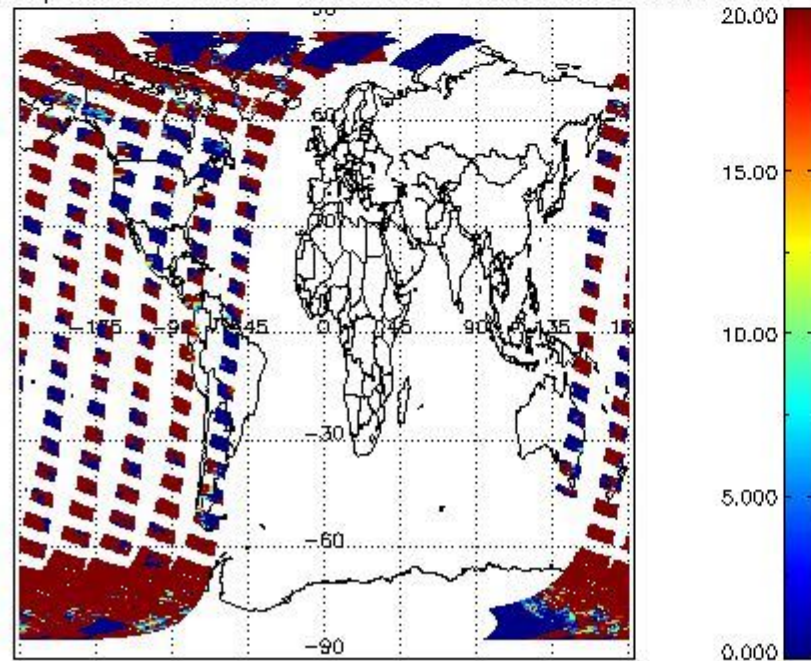
cL_frac for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



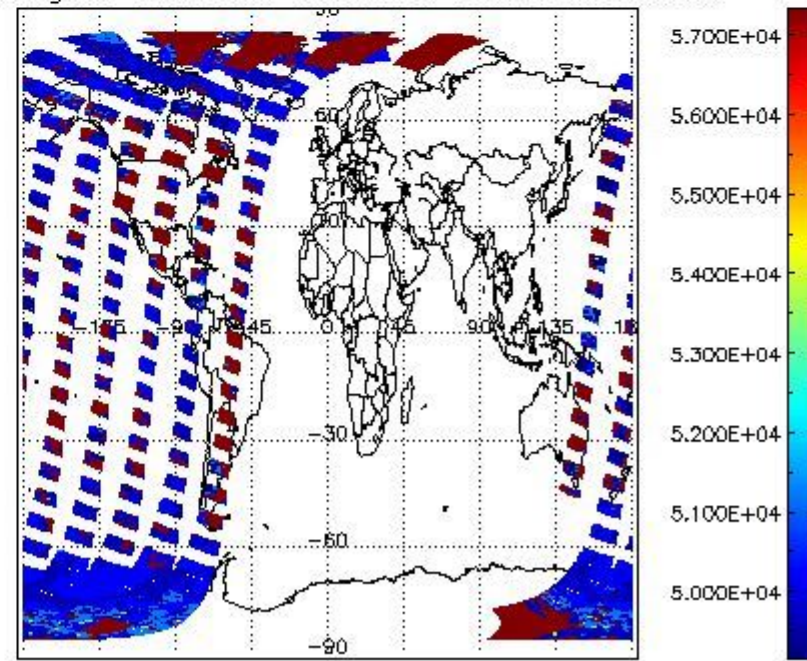
cL_top_height for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



cL_opt_depth for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



cloud_flags for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



2.2.2 Nadir

This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

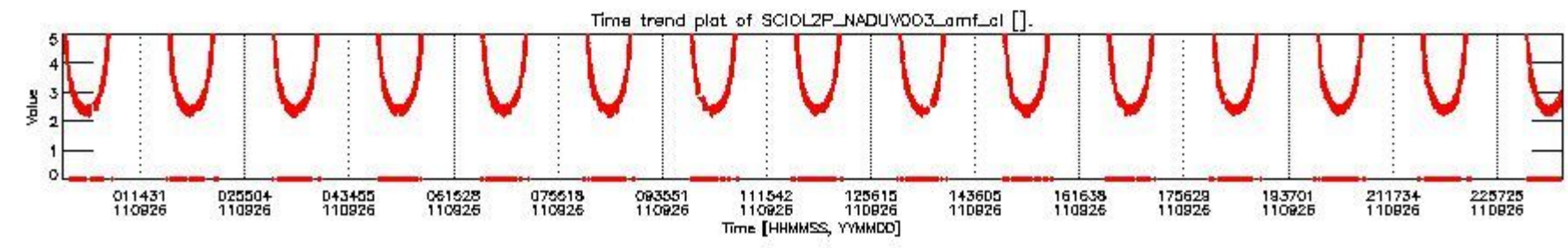
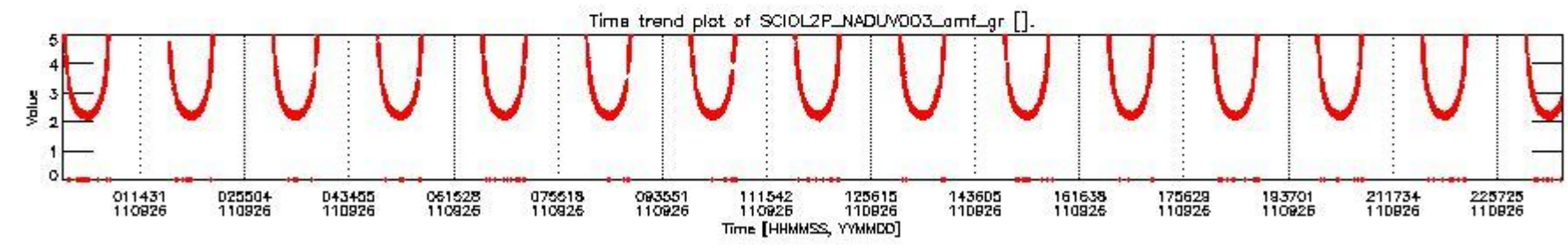
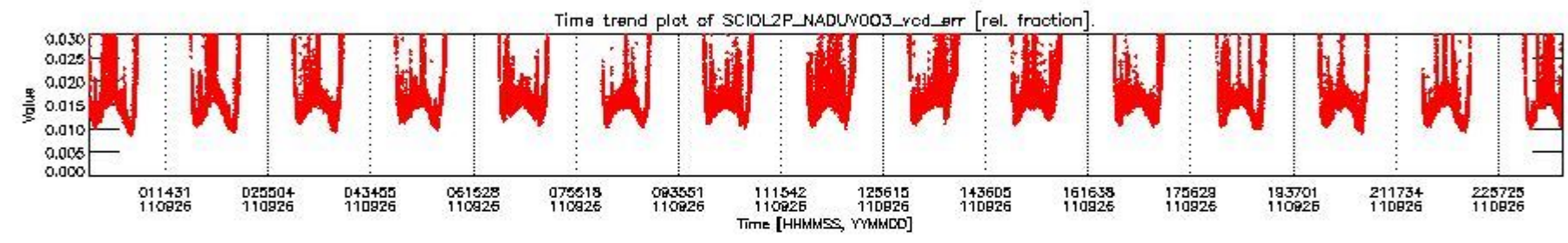
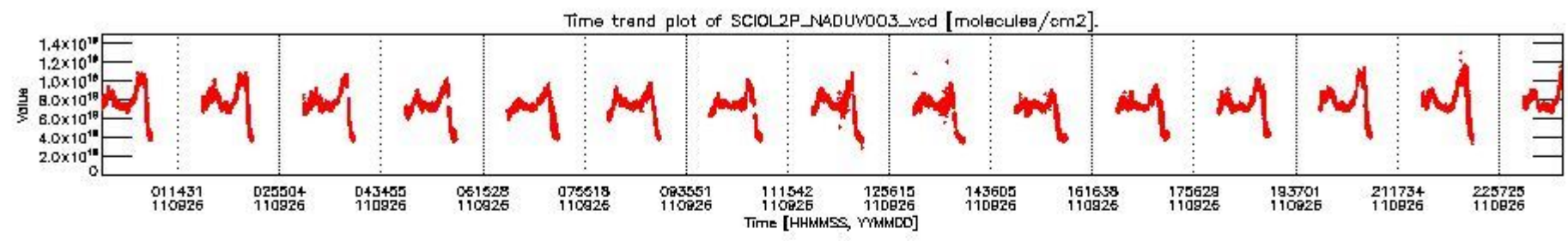
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

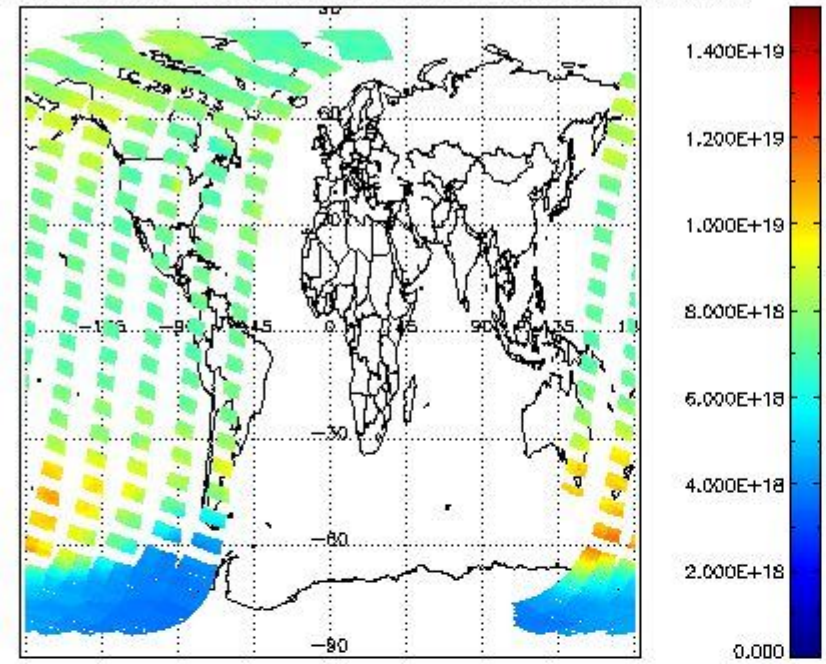
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr
15	SCIOL2P_NADUV5SO2_amf_cl
16	SCIOL2P_NADUV7SO2_vcd
17	SCIOL2P_NADUV7SO2_vcd_err
18	SCIOL2P_NADUV7SO2_amf_gr
19	SCIOL2P_NADUV7SO2_amf_cl
20	SCIOL2P_NADUV6OCL_slant_col_den
21	SCIOL2P_NADUV6OCL_err_slant_col
22	SCIOL2P_NADUV8H2O_vcd
23	SCIOL2P_NADUV8H2O_vcd_err
24	SCIOL2P_NADUV8H2O_amf_gr
25	SCIOL2P_NADIR3CO_vcd
26	SCIOL2P_NADIR3CO_vcd_err

Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the MPH.

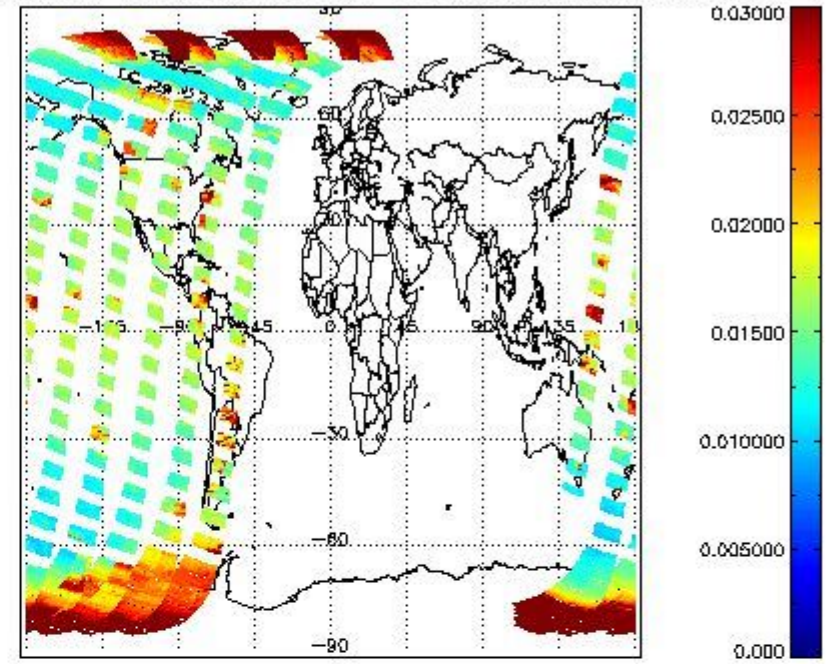
[2.2.2.1 O3 \(UV0\)](#)



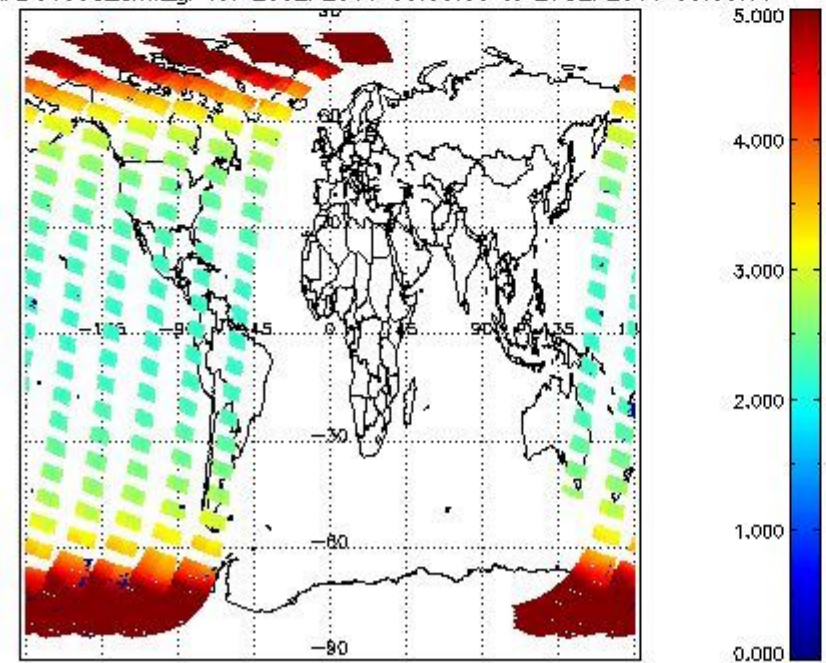
SCIOL2P_NADUV003_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



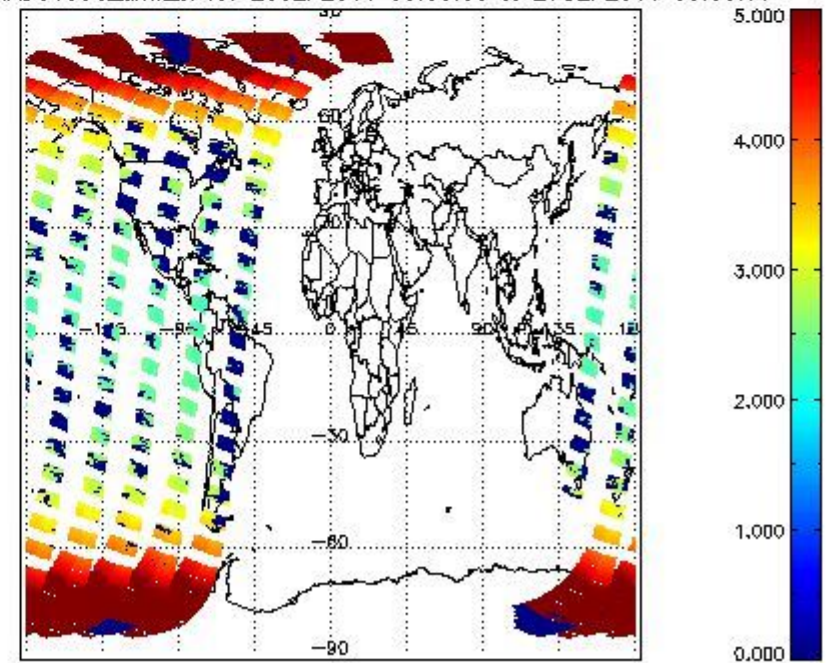
SCIOL2P_NADUV003_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



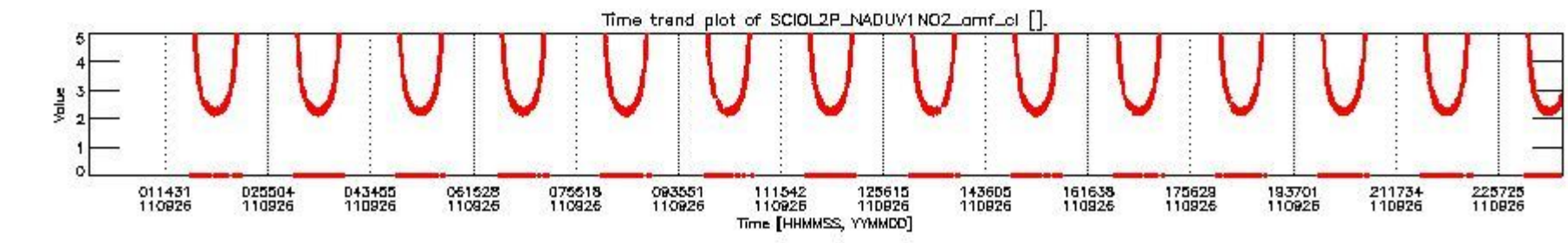
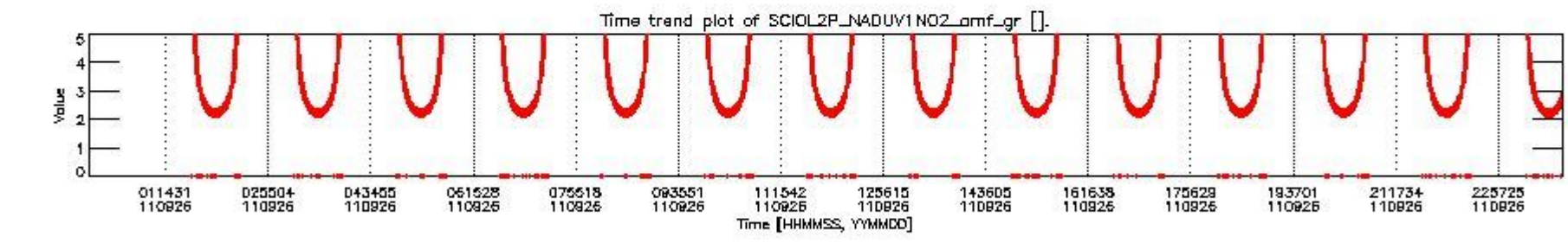
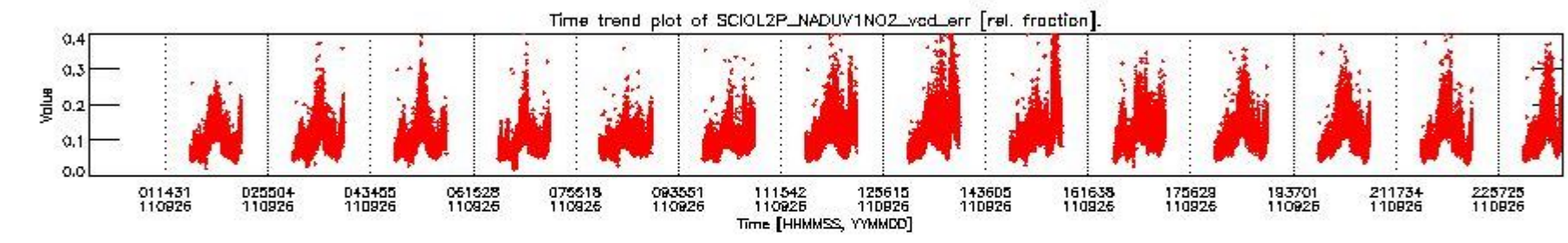
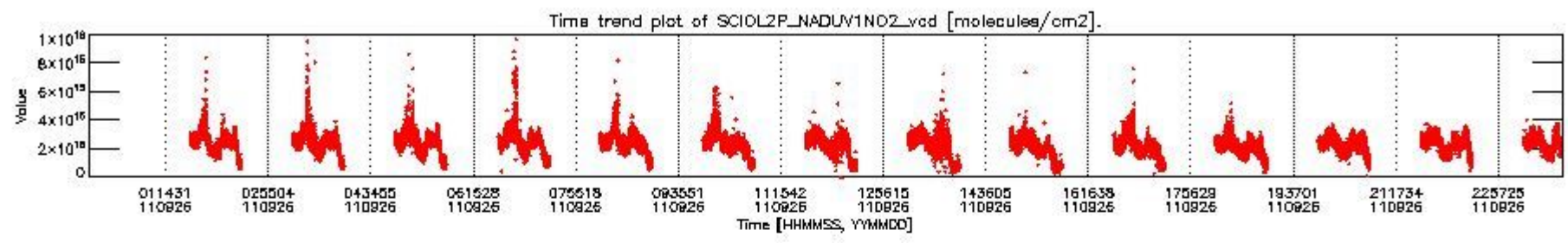
SCIOL2P_NADUV003_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



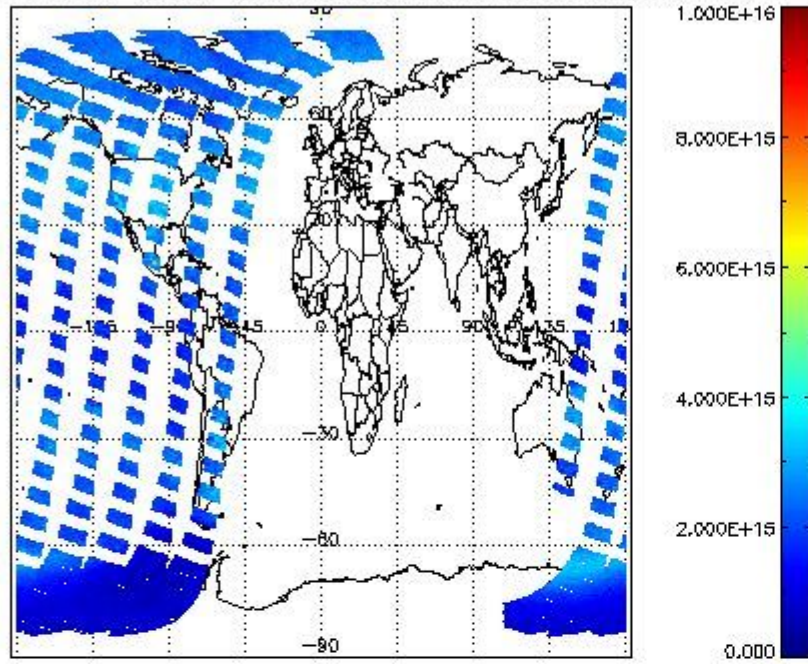
SCIOL2P_NADUV003_amf_cl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



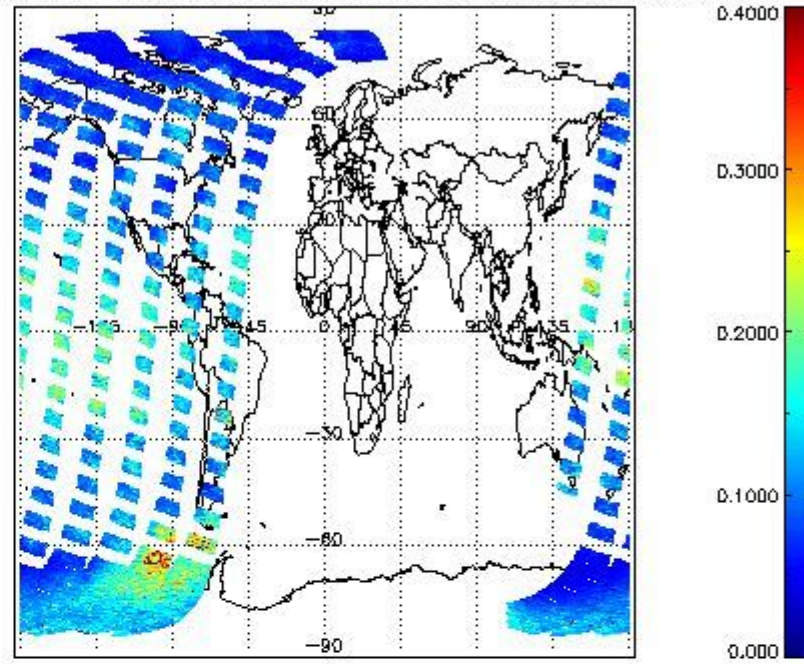
2.2.2.2 NO2 (UV1)



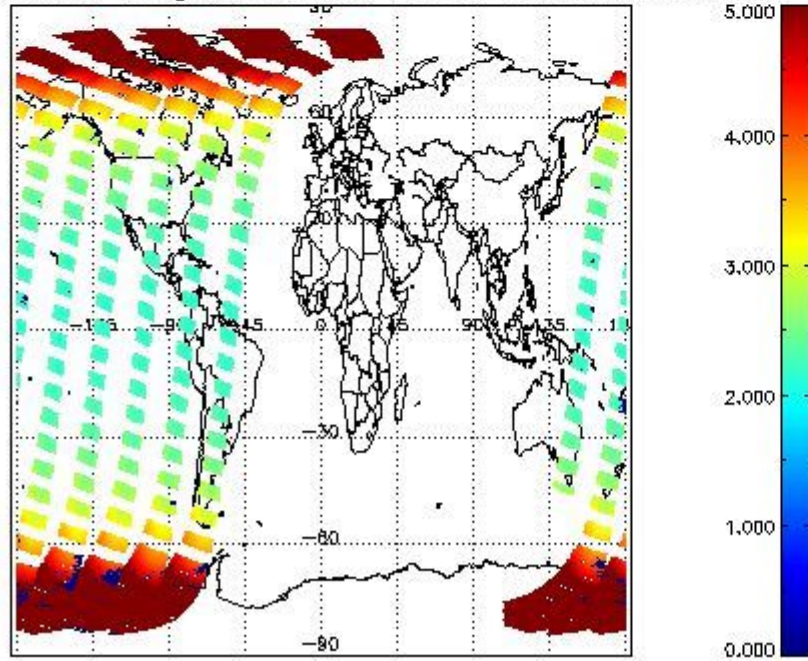
SCIOL2P_NADUV1NO2_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



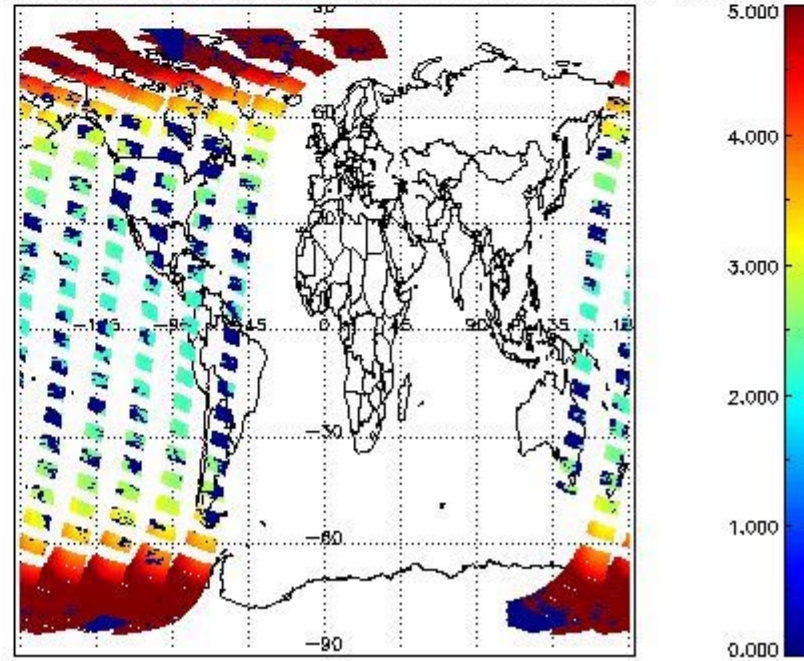
SCIOL2P_NADUV1NO2_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



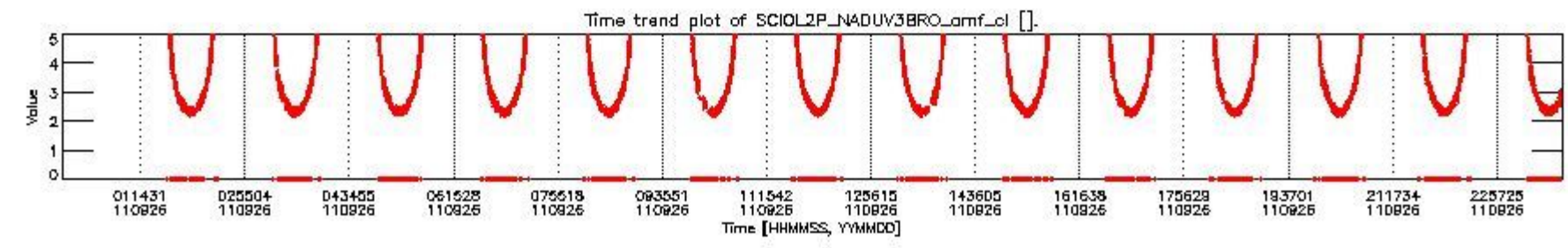
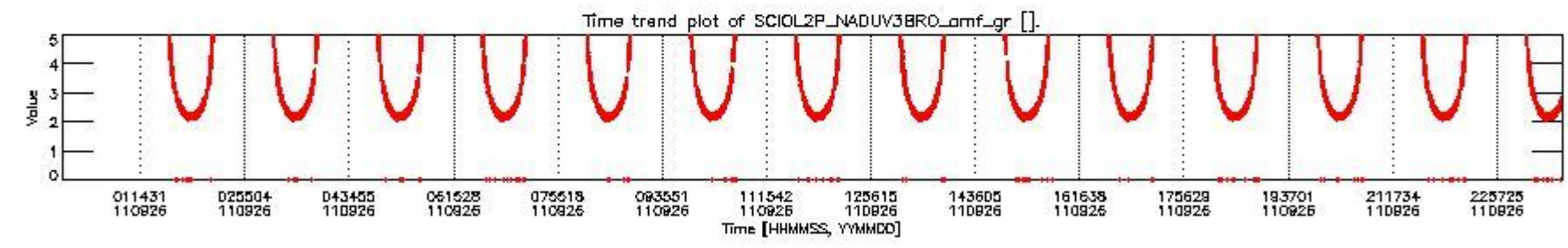
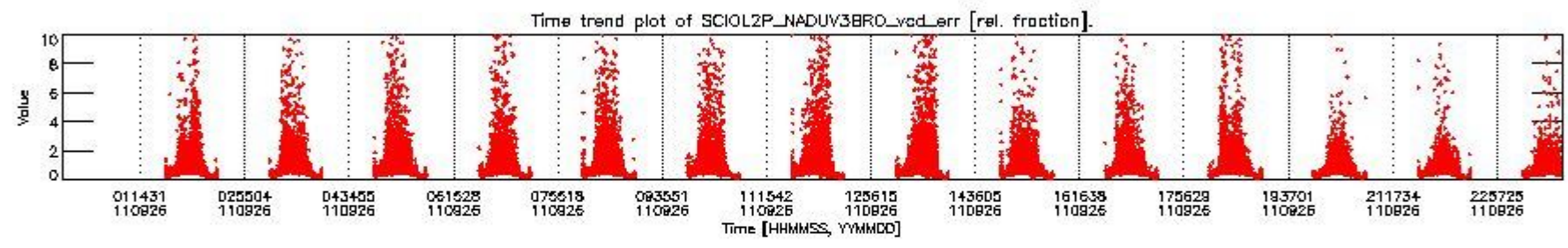
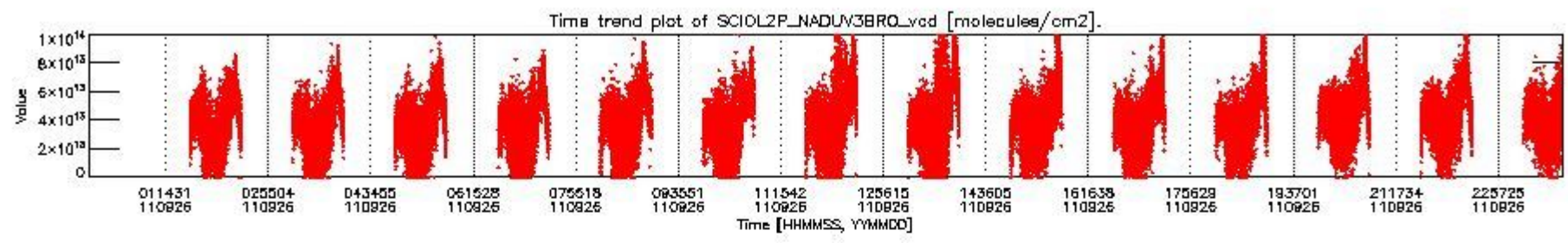
SCIOL2P_NADUV1NO2_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



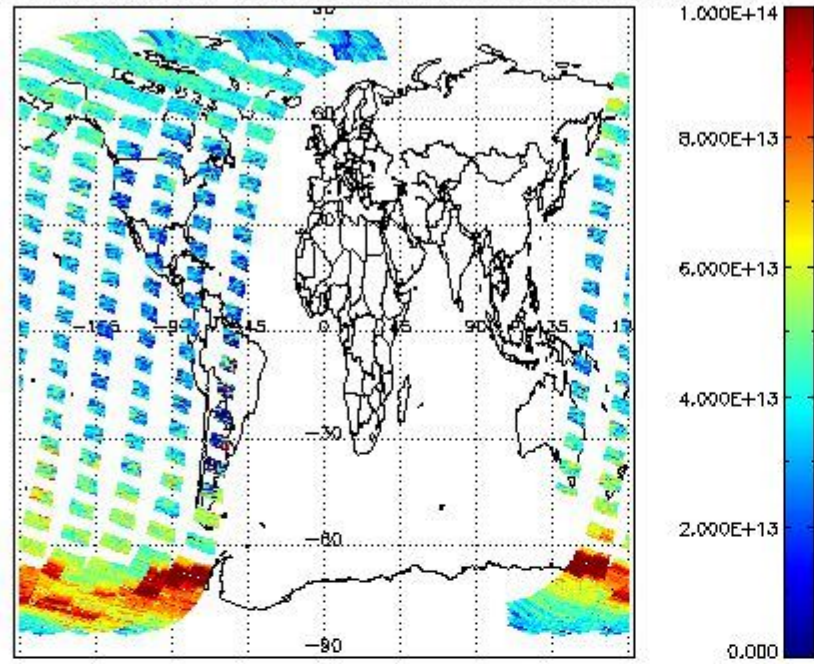
SCIOL2P_NADUV1NO2_amf_cl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



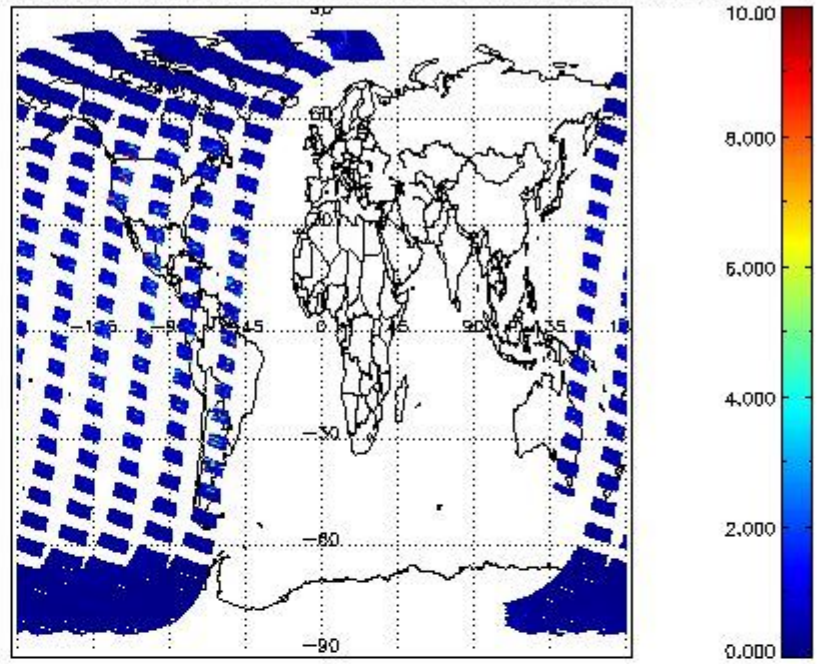
2.2.2.3 BrO (UV3)



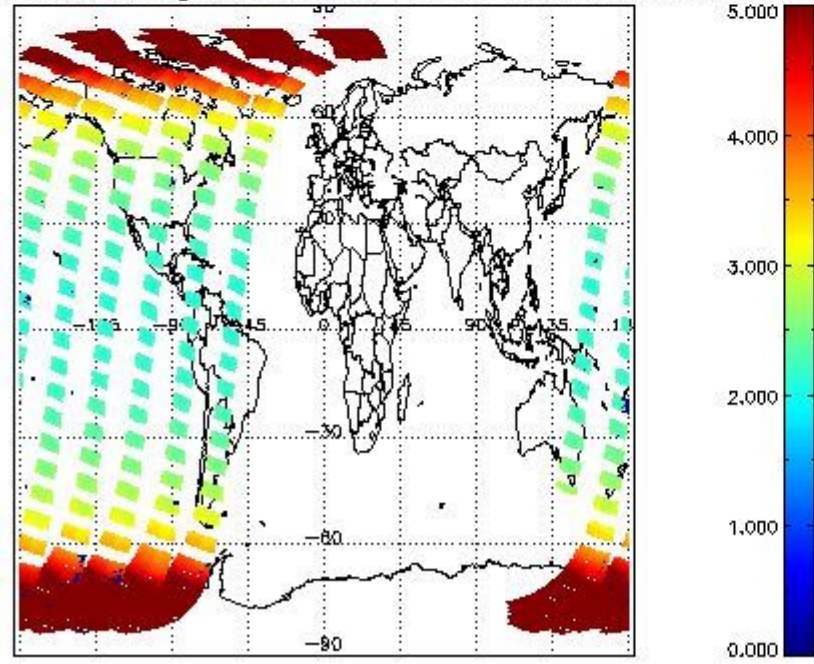
SCIOL2P_NADUV3BRO_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



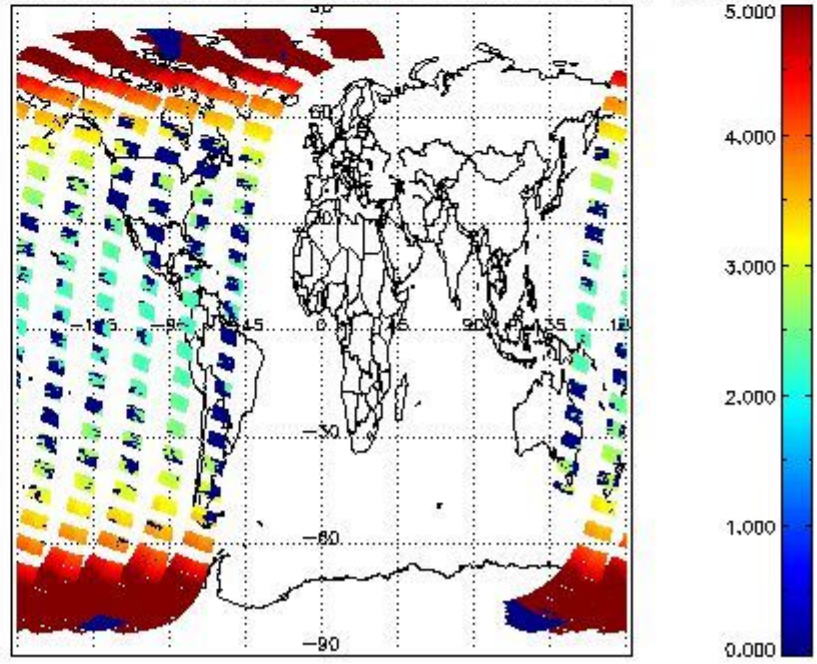
SCIOL2P_NADUV3BRO_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



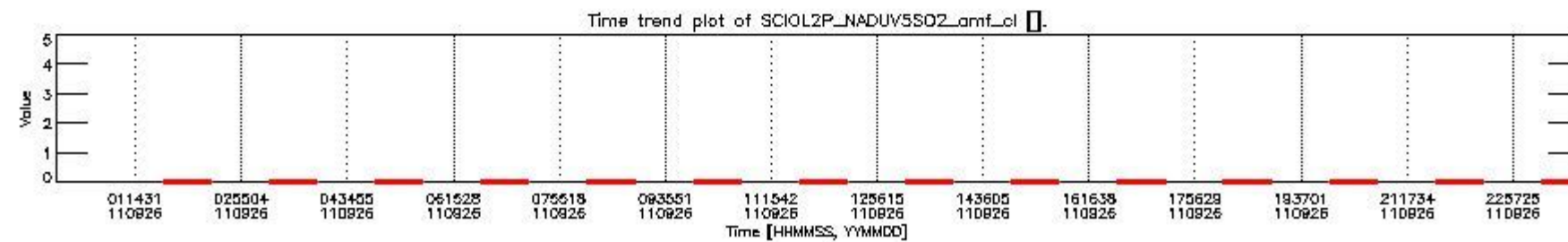
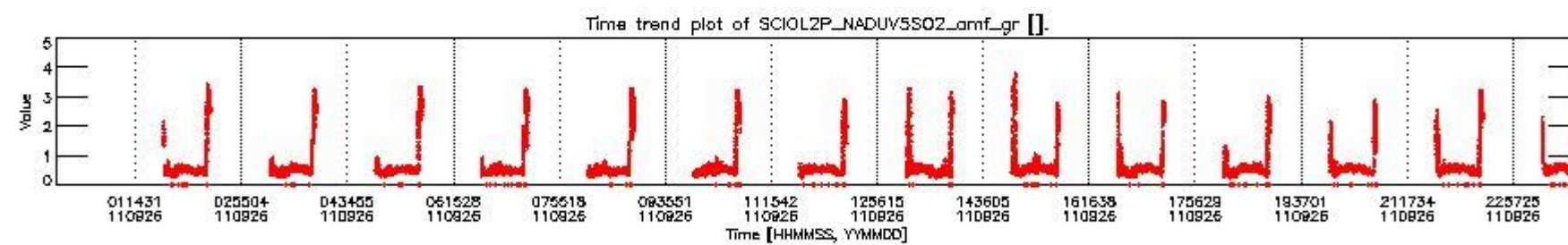
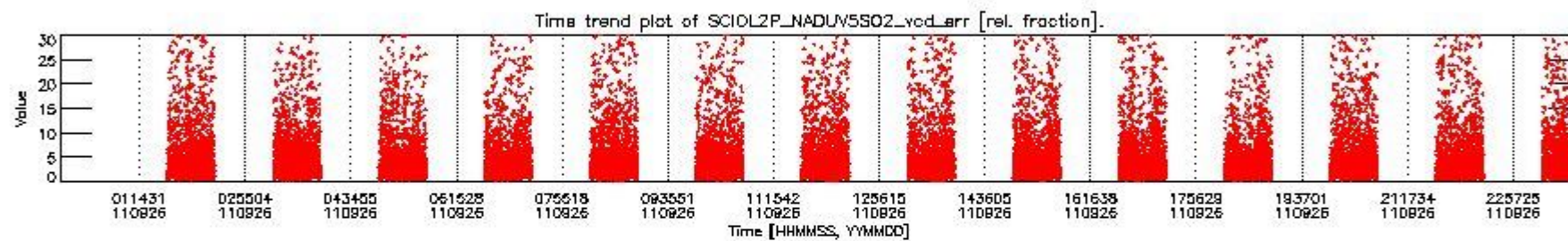
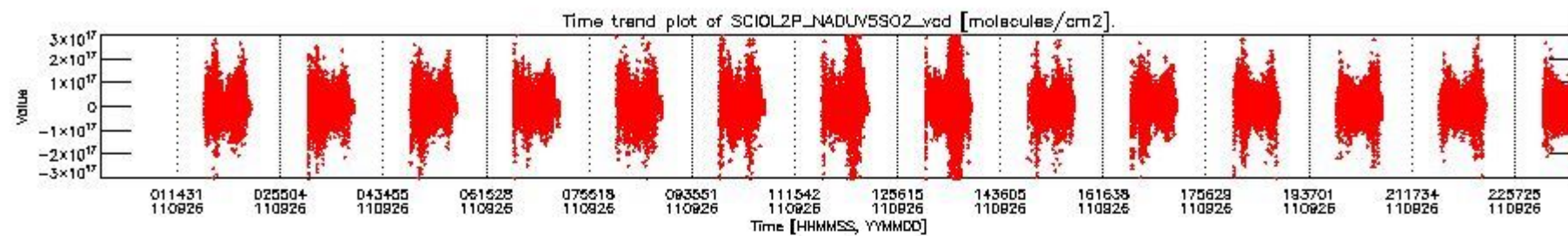
SCIOL2P_NADUV3BRO_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



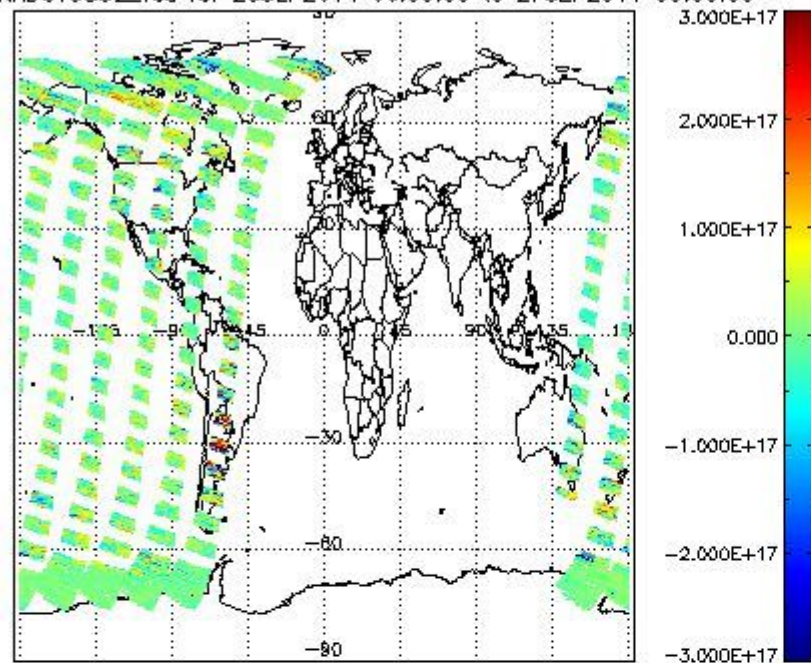
SCIOL2P_NADUV3BRO_amf_cl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



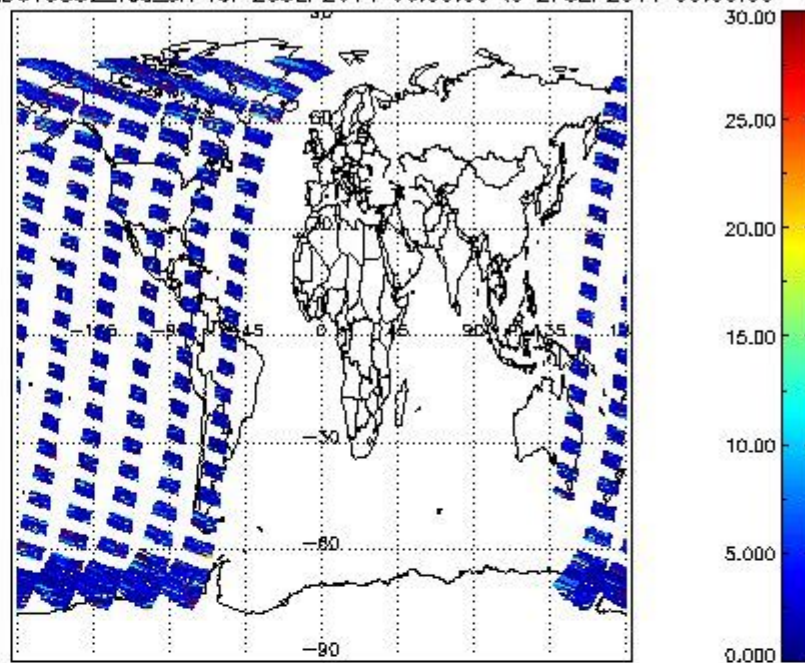
2.2.2.4 SO2 (UV5)



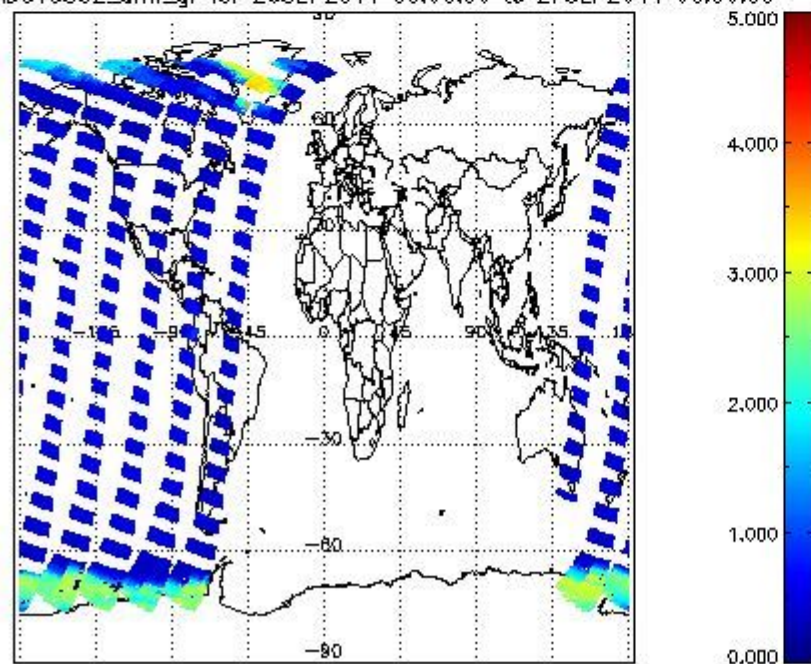
SCIOL2P_NADUV5S02_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



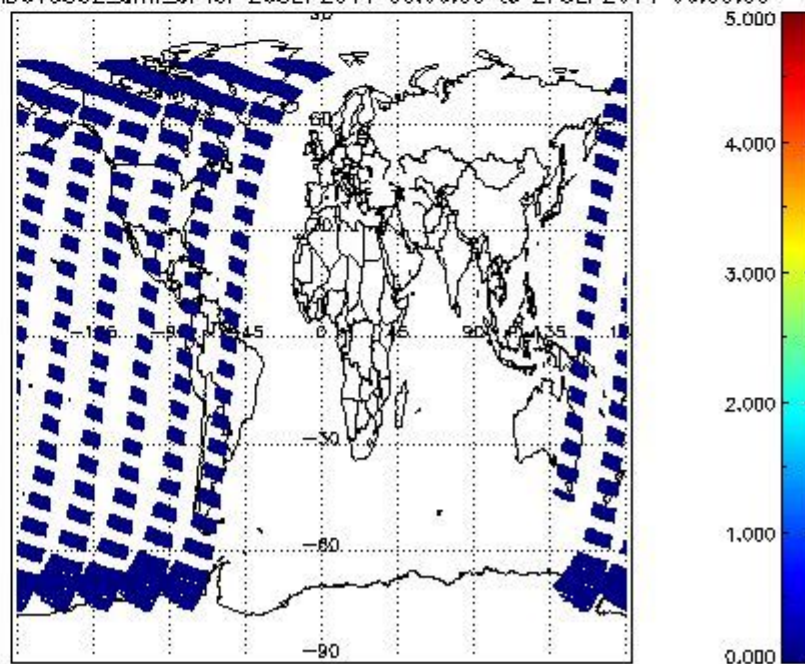
SCIOL2P_NADUV5S02_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



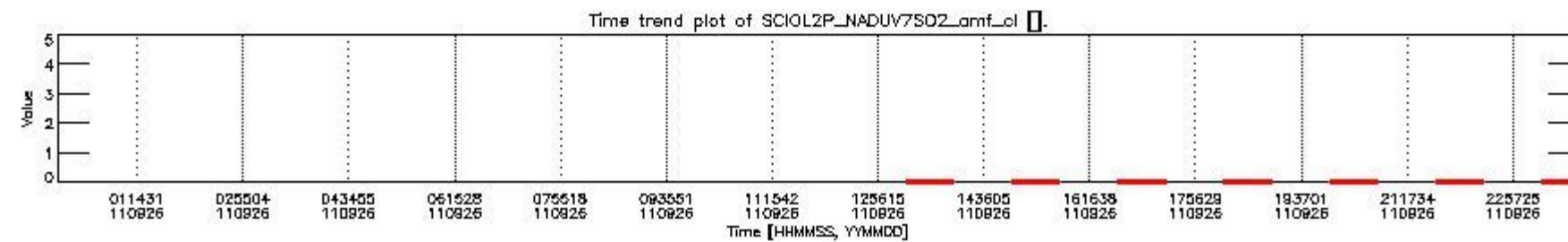
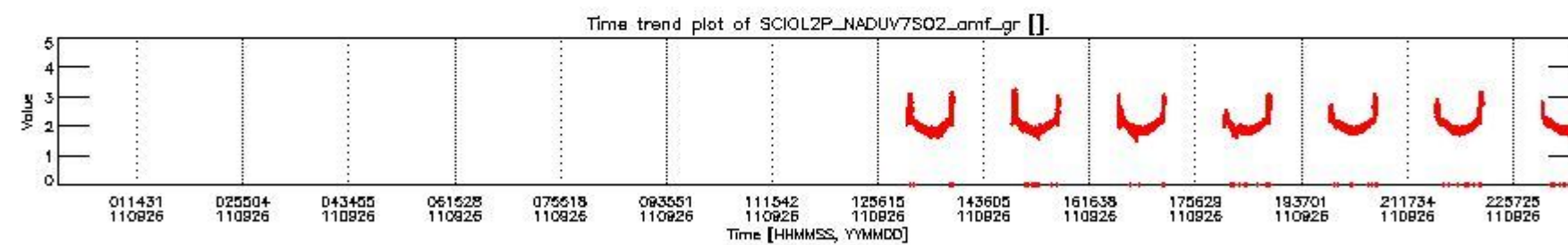
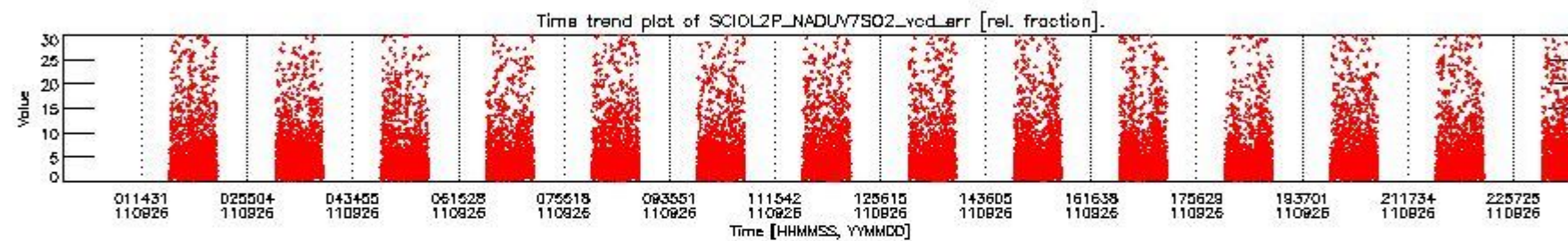
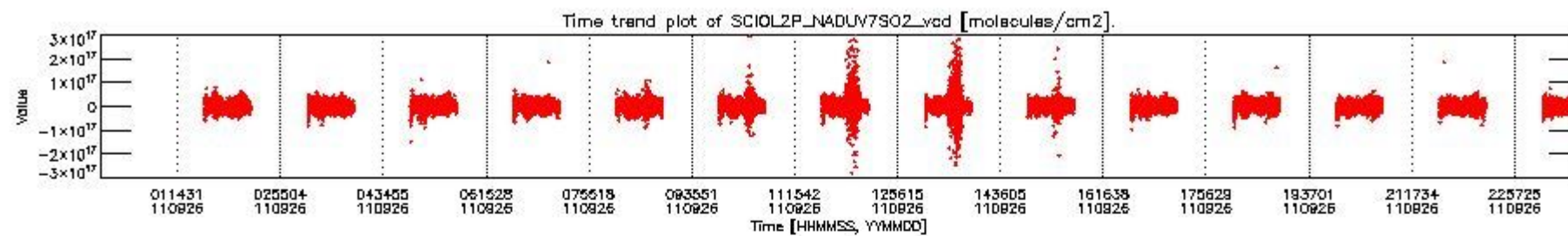
SCIOL2P_NADUV5S02_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



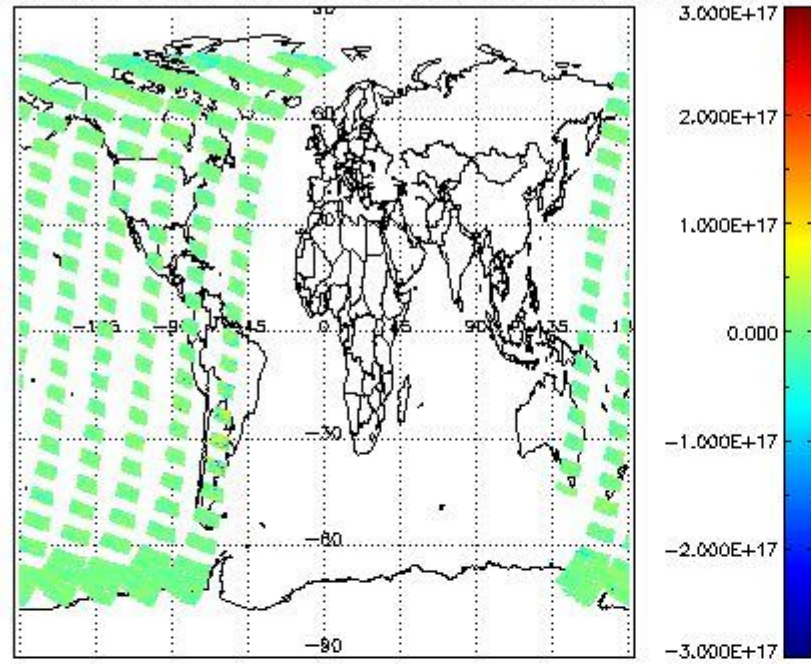
SCIOL2P_NADUV5S02_amf_cl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



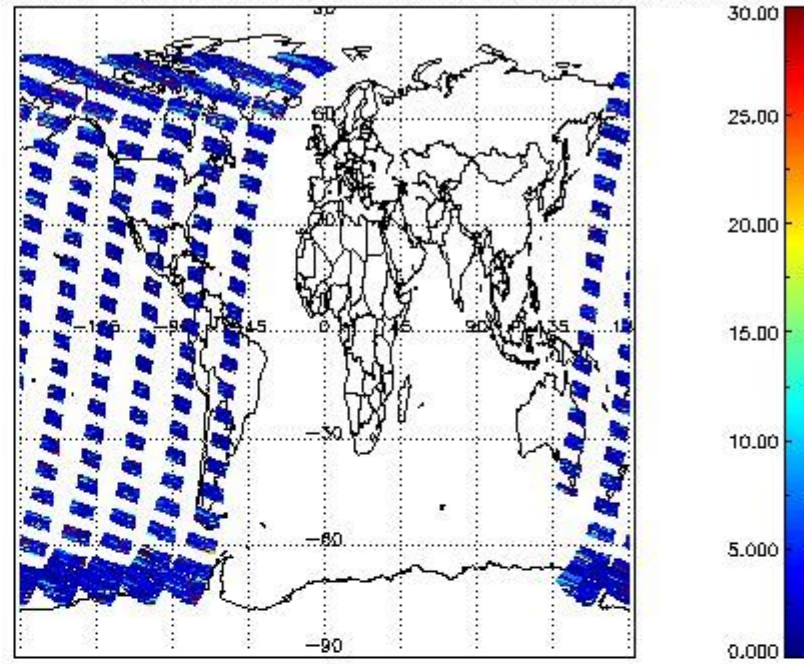
2.2.2.5 SO2 (UV7)



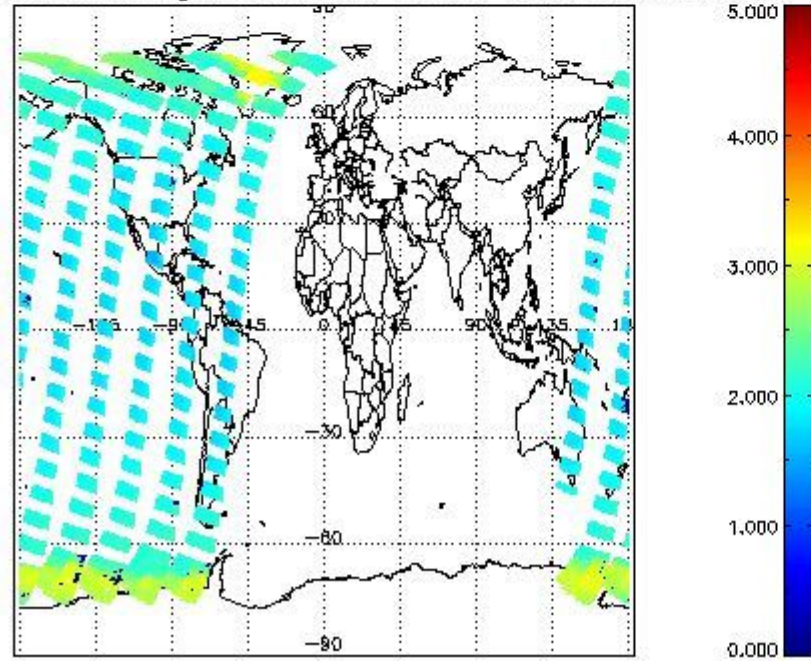
SCIOL2P_NADUV7S02_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



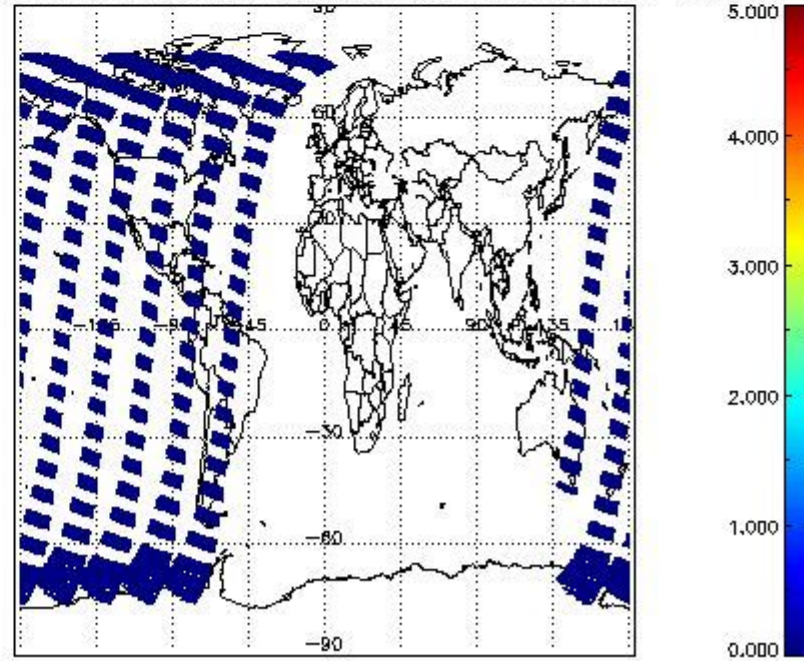
SCIOL2P_NADUV7S02_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



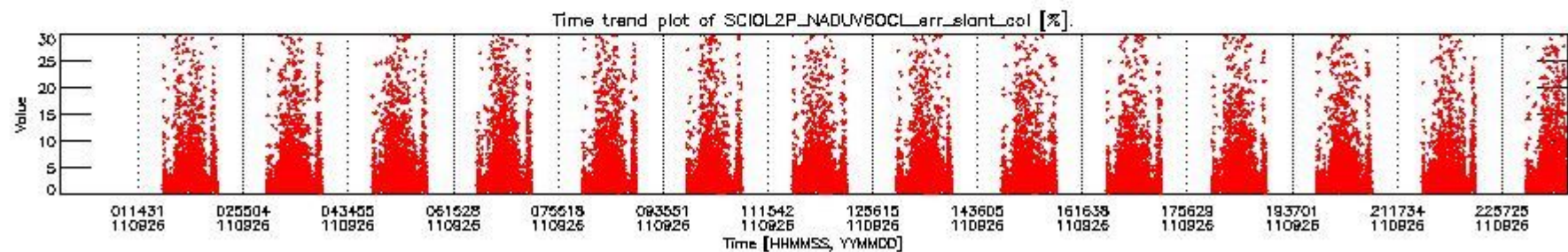
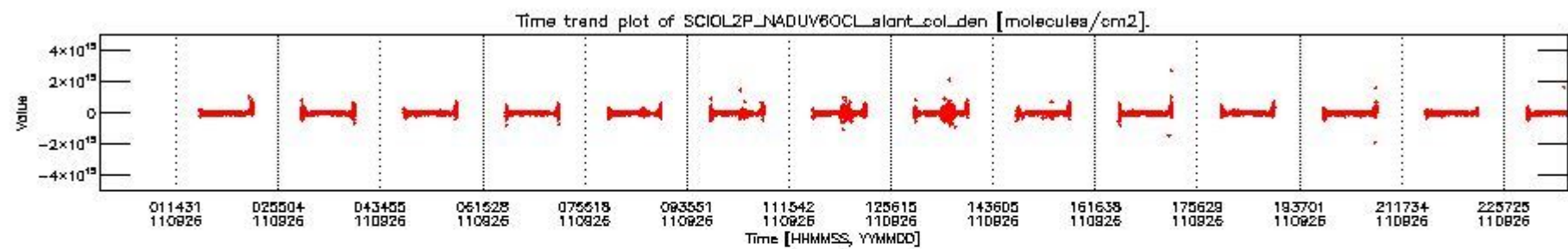
SCIOL2P_NADUV7S02_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



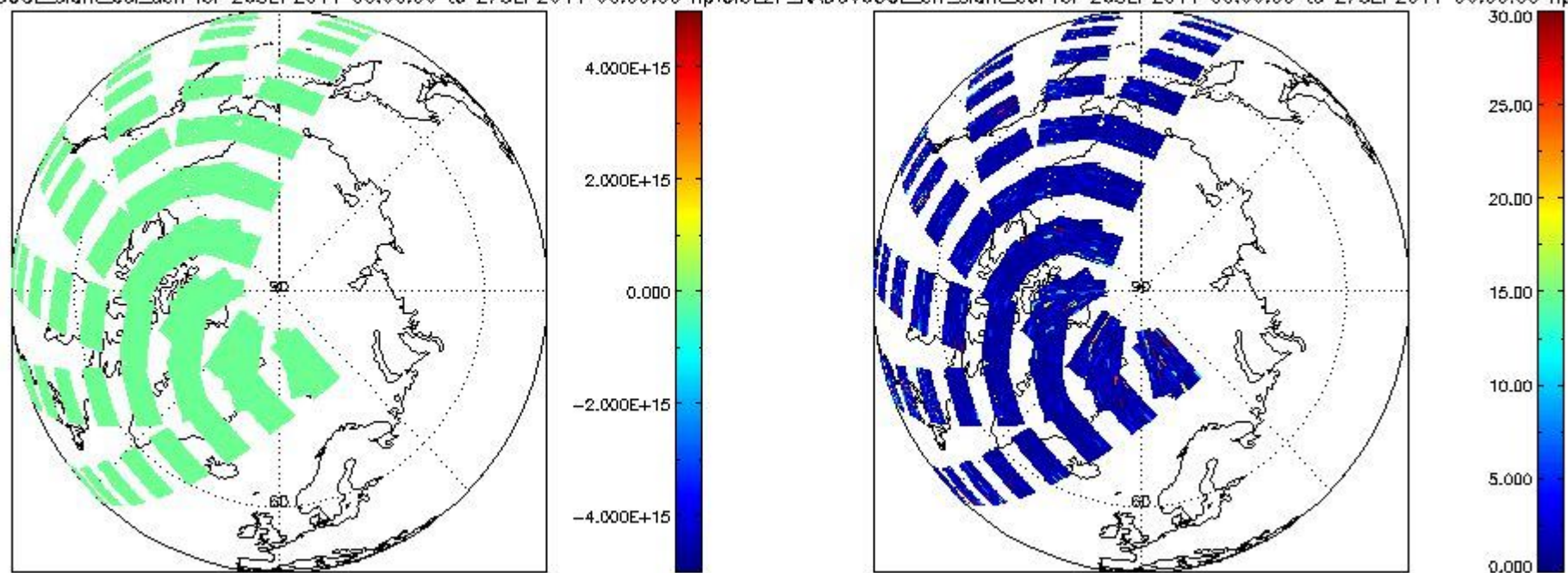
SCIOL2P_NADUV7S02_amf_cl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



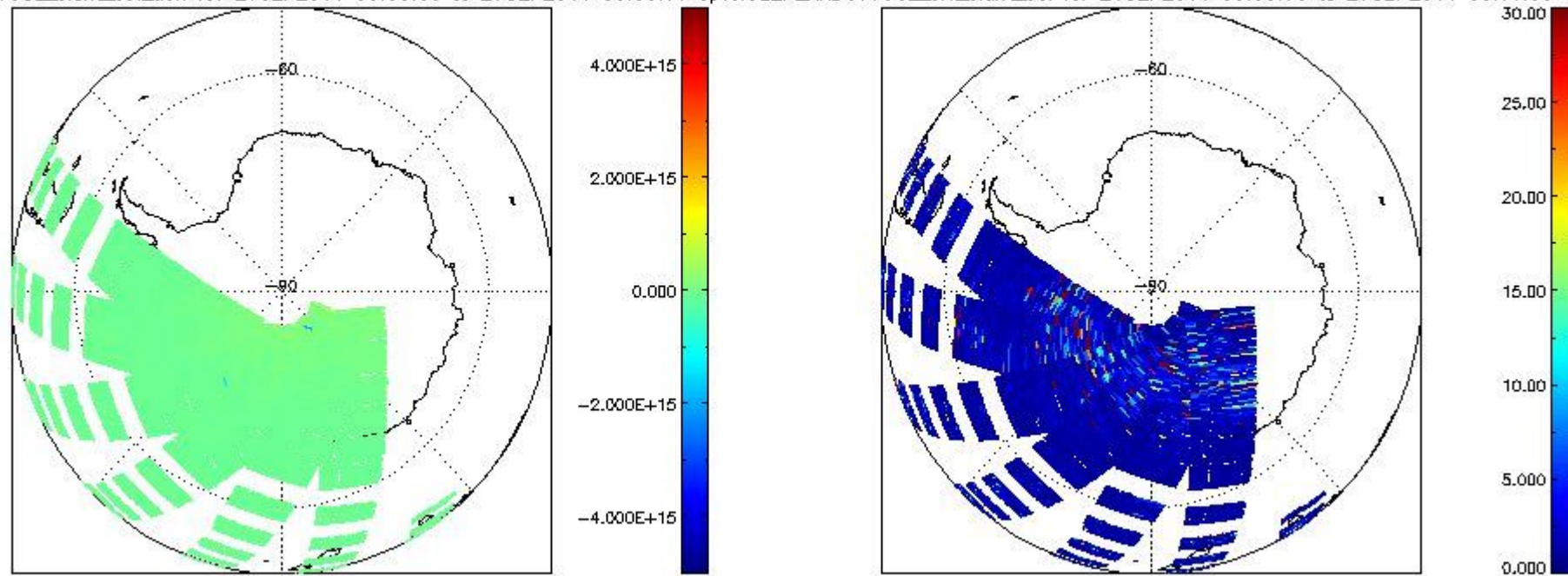
2.2.2.6 OCIO (UV6)



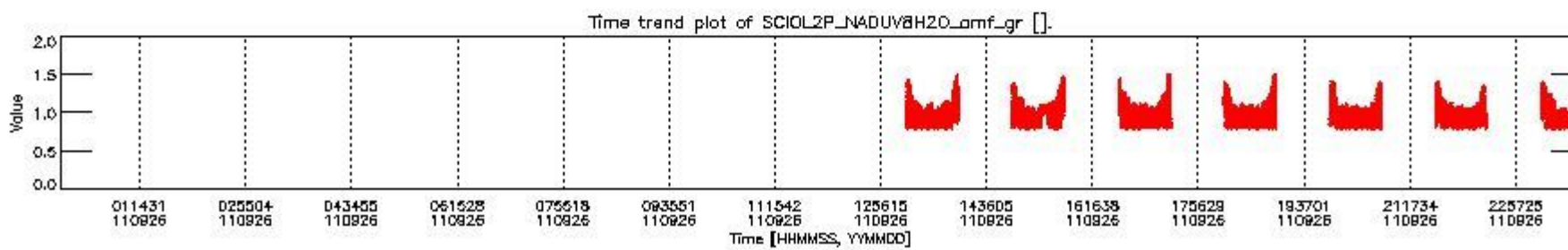
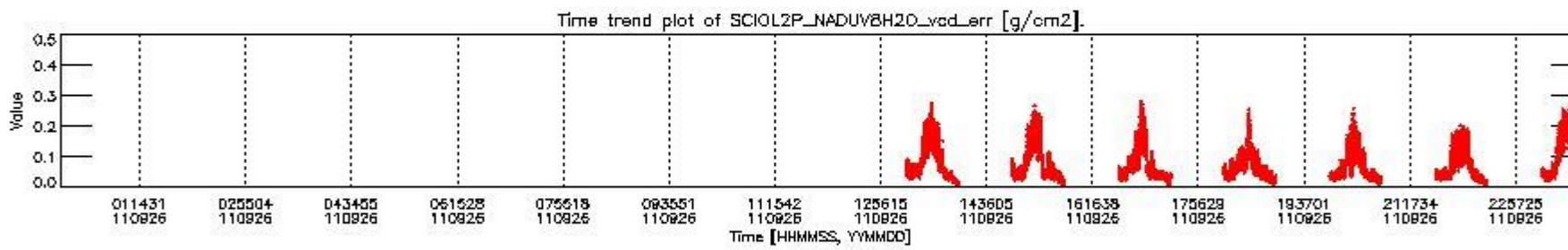
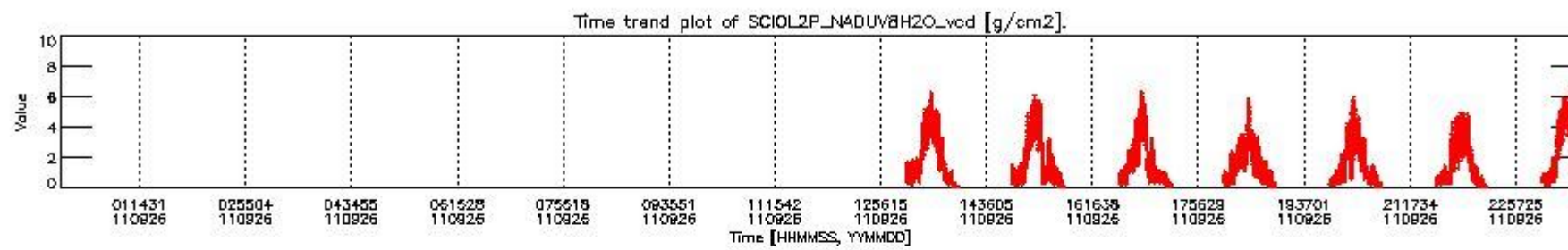
CIOL2P_NADUV60CLslant_col_den for 26SEP2011 00:00:00 to 27SEP2011 00:00:00 np; CIOL2P_NADUV60CLarr_slant_col for 26SEP2011 00:00:00 to 27SEP2011 00:00:00 np



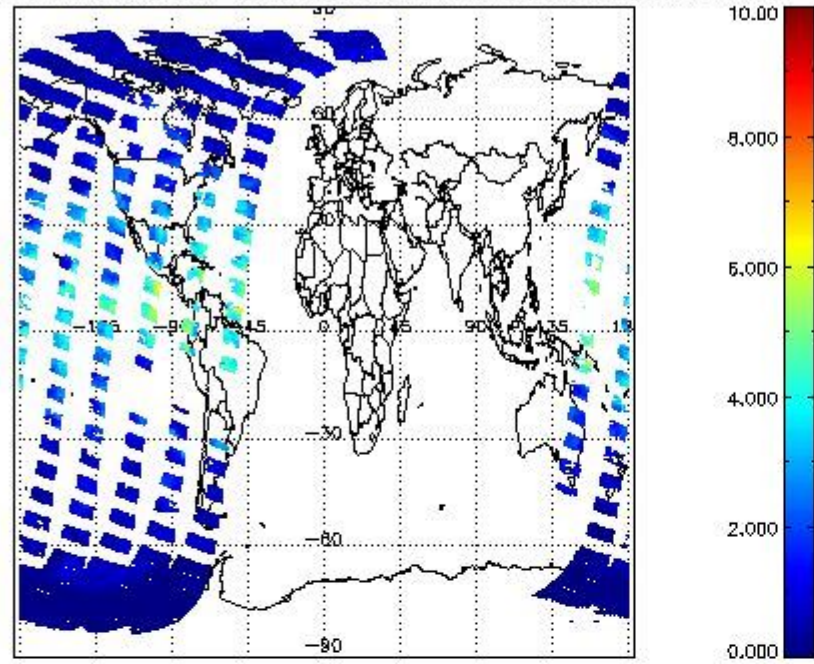
CIOL2P_NADUV60CL_slant_col_den for 26SEP2011 00:00:00 to 27SEP2011 00:00:00 sp CIOL2P_NADUV60CL_err_slant_col for 26SEP2011 00:00:00 to 27SEP2011 00:00:00 sp



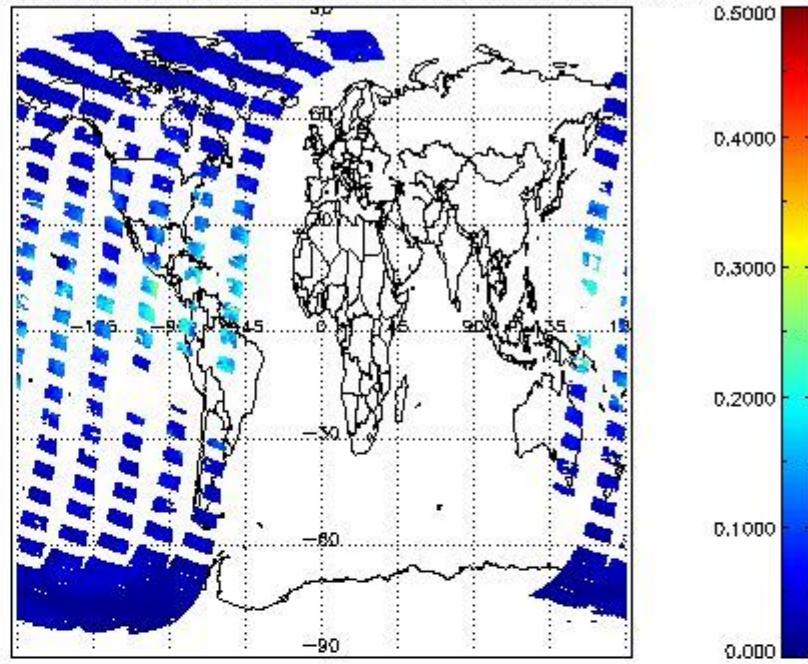
2.2.2.7 H2O (UV8)



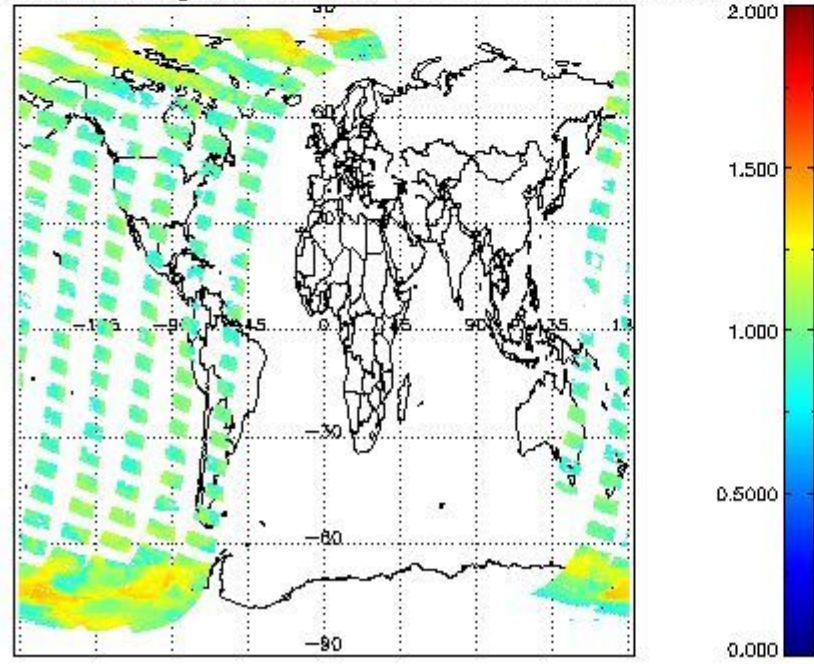
SCIOL2P_NADUV8H2O_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

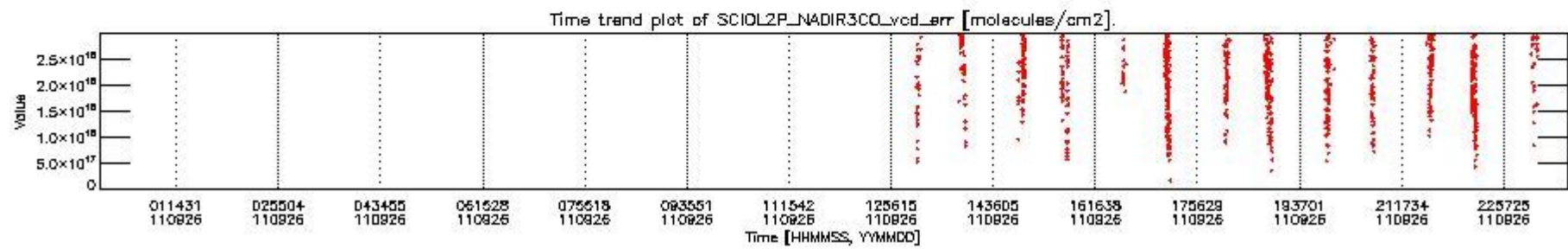
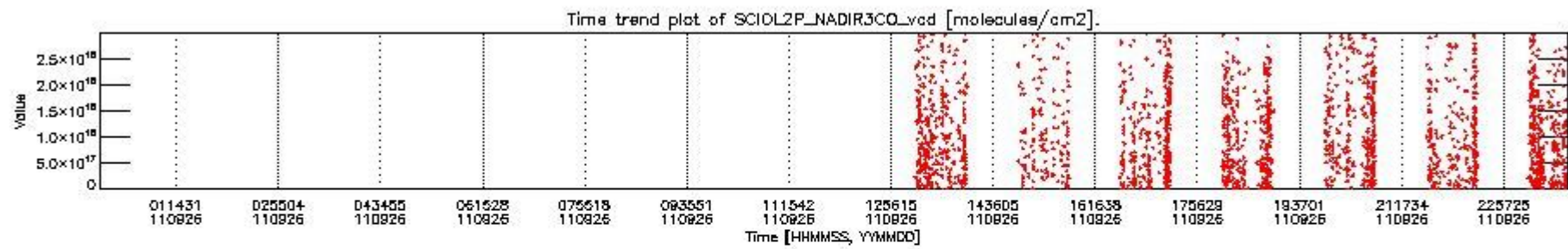


SCIOL2P_NADUV8H2O_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

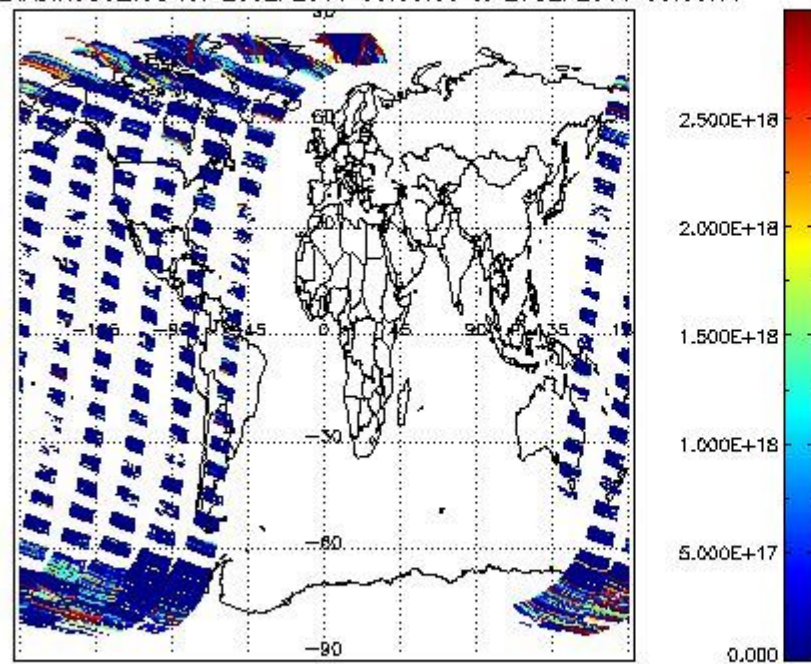


SCIOL2P_NADUV8H2O_arnf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

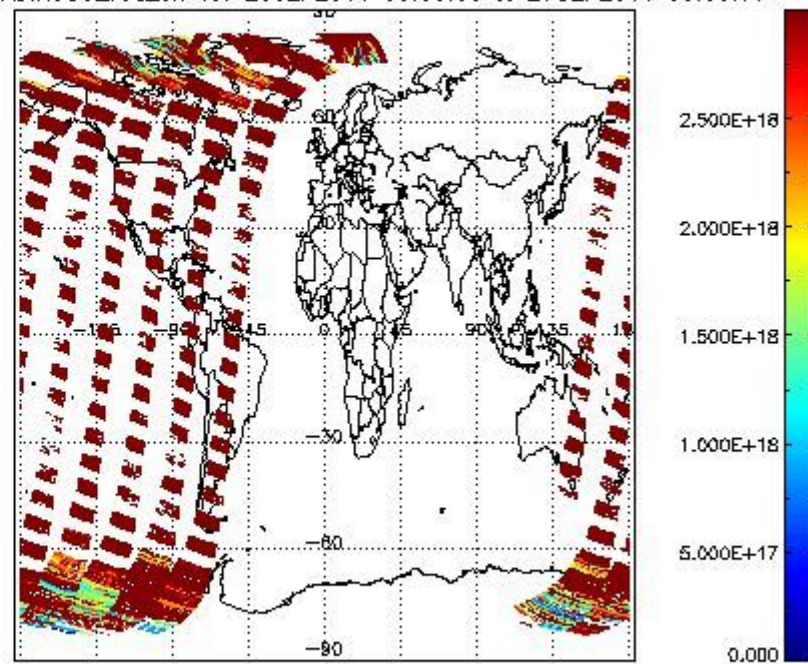




SCIO2P_NADIR3CO_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



SCIO2P_NADIR3CO_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



2.2.3 Limb

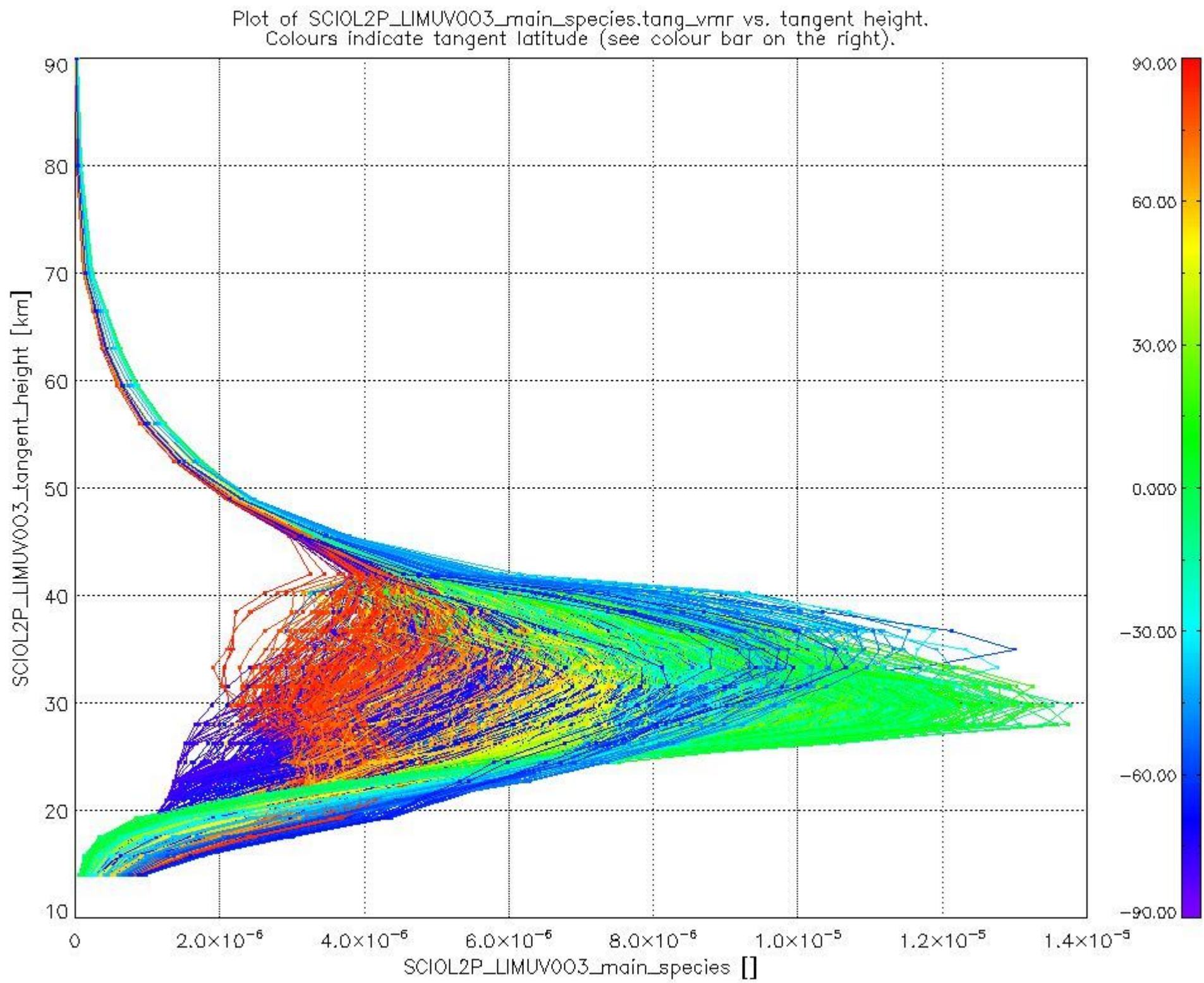
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIO2P_LIMUV003_main_species
1	SCIO2P_LIMUV1NO2_main_species
2	SCIO2P_LIMUV3BRO_main_species

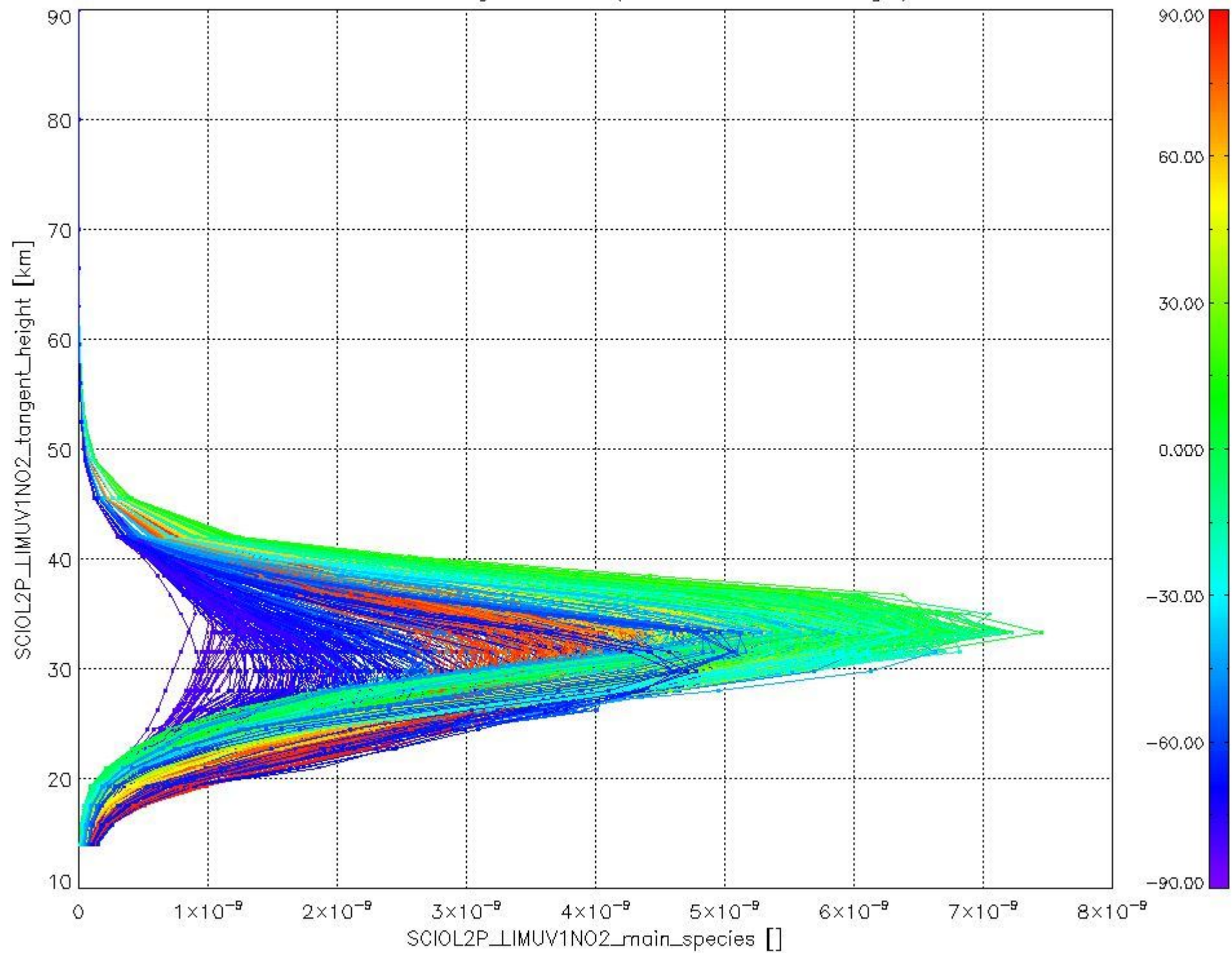
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



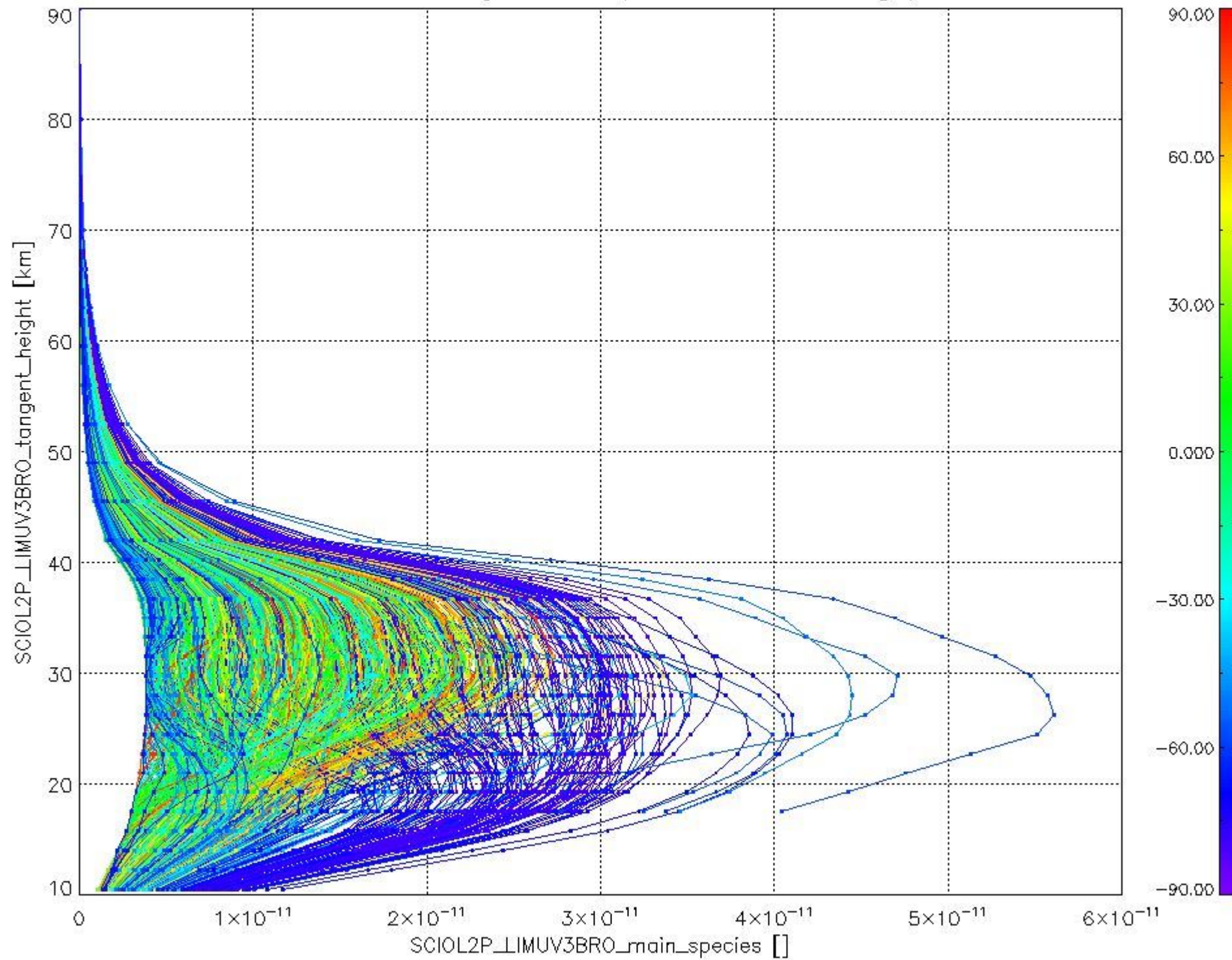
2.2.3.2 NO2 (UV1)

Plot of SCIO2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)

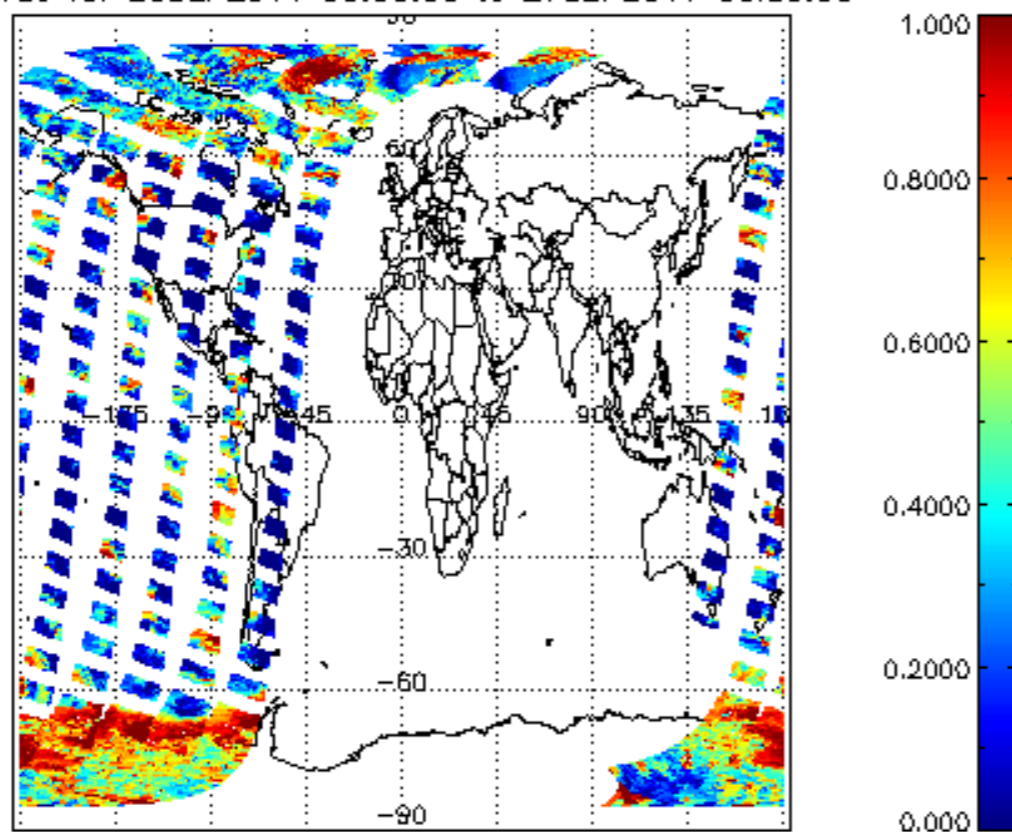
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



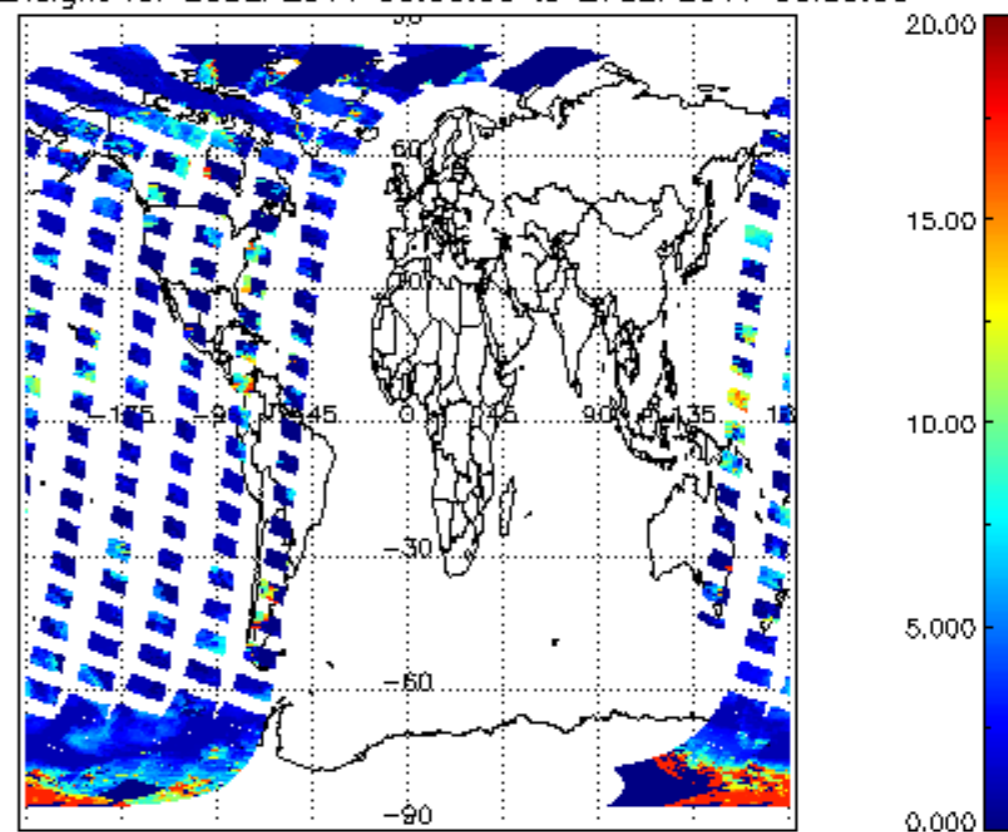
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20110927_141242_20110925_181713_20110927_181713
3	SCI_MF1_AXVIEC20110927_141339_20110926_192042_20110928_192042

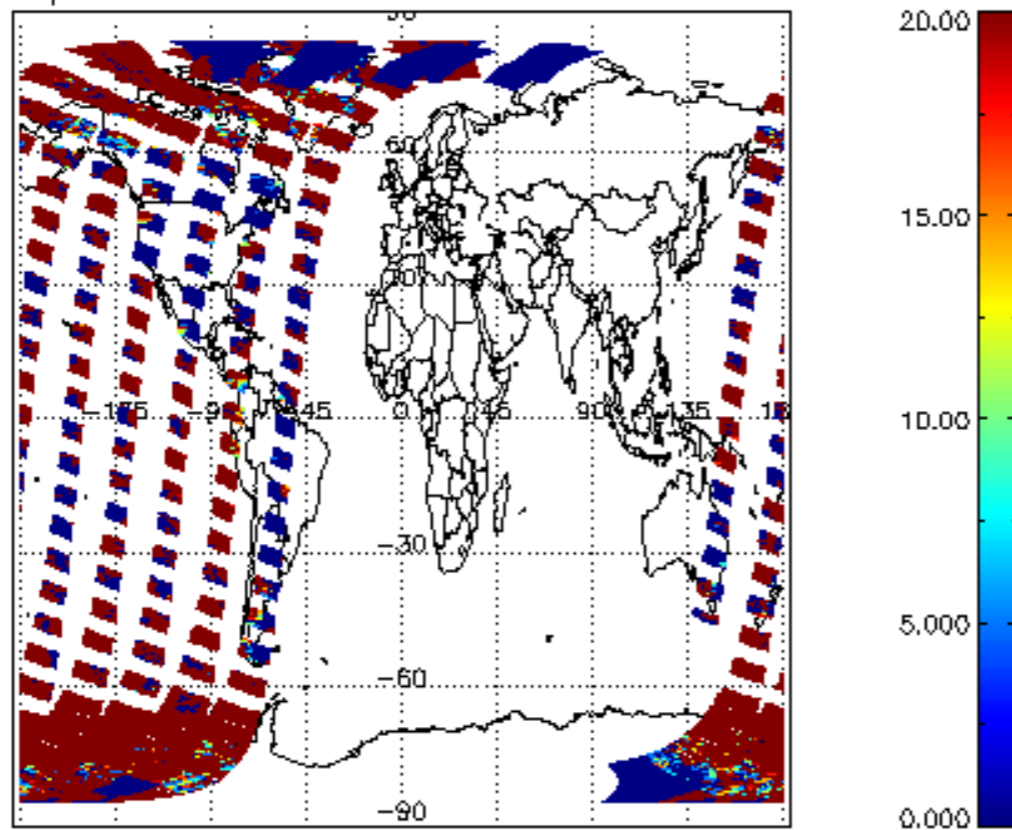
cl_frac for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



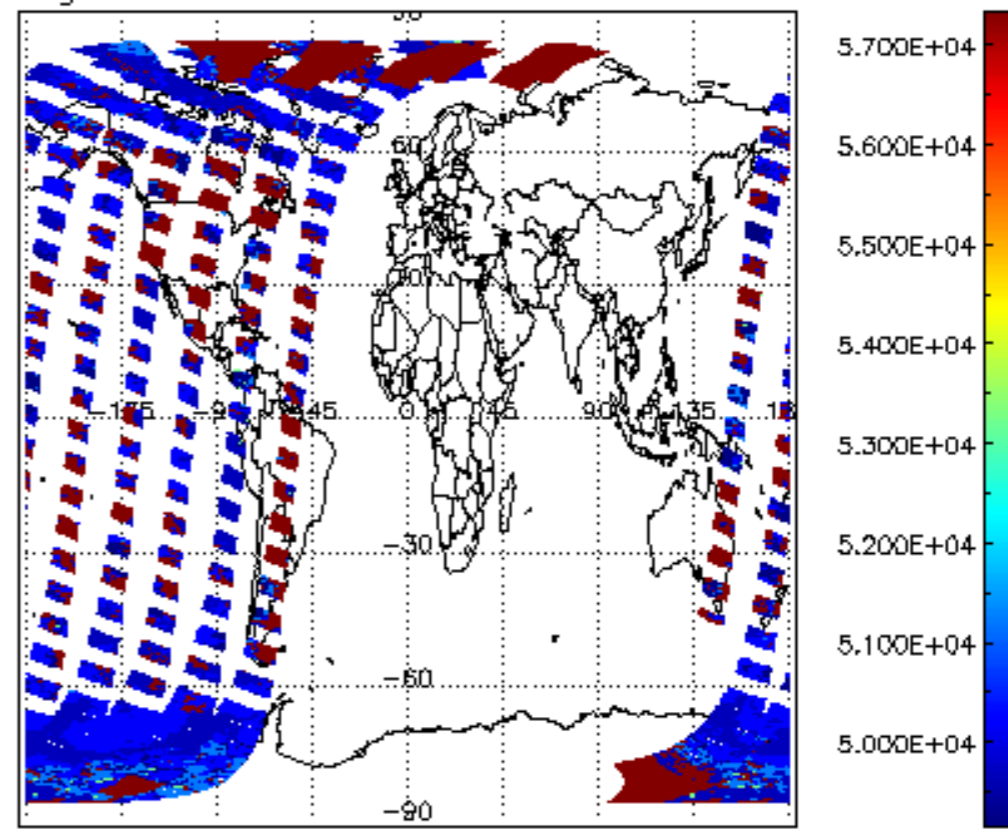
cl_top_height for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

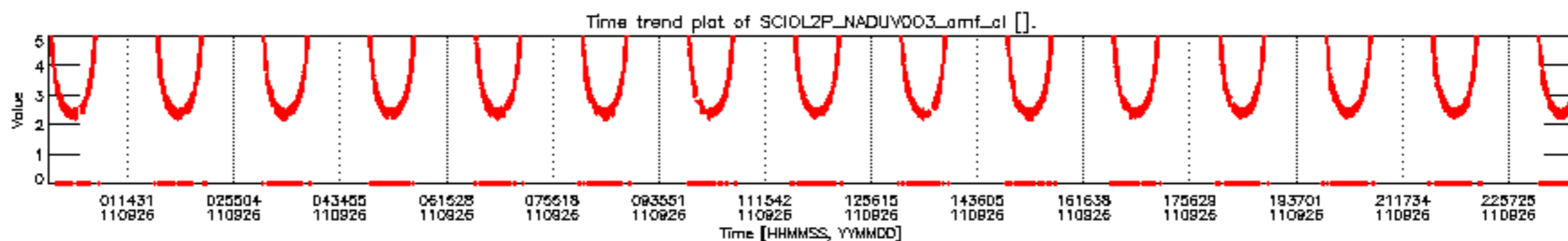
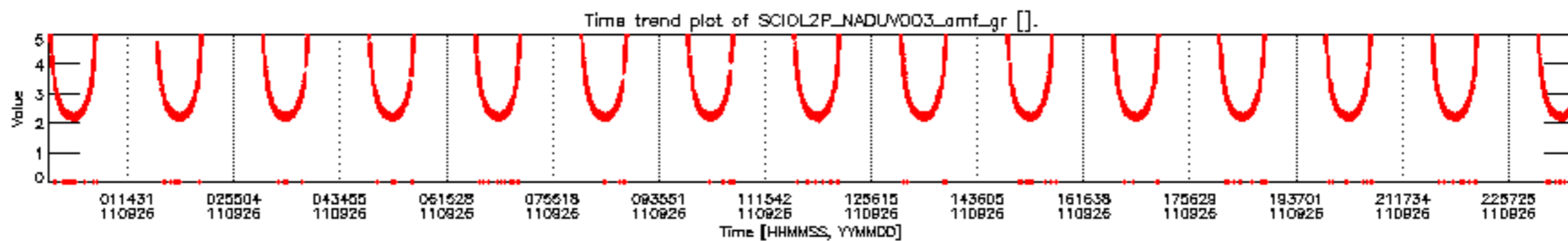
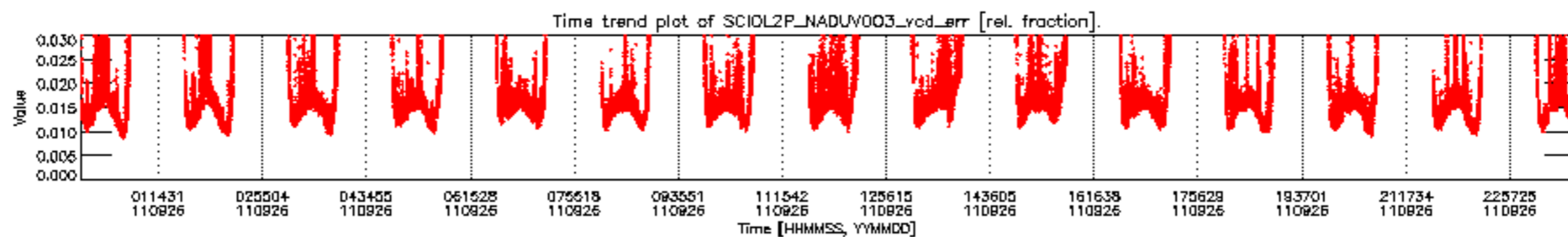
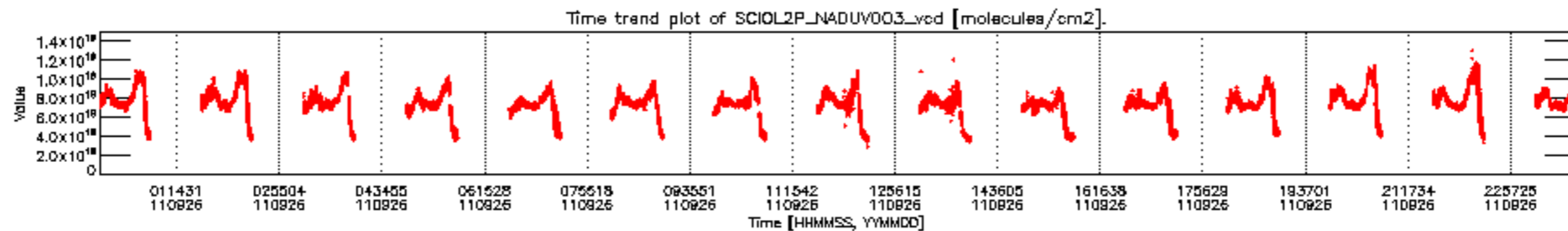


cl_opt_depth for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

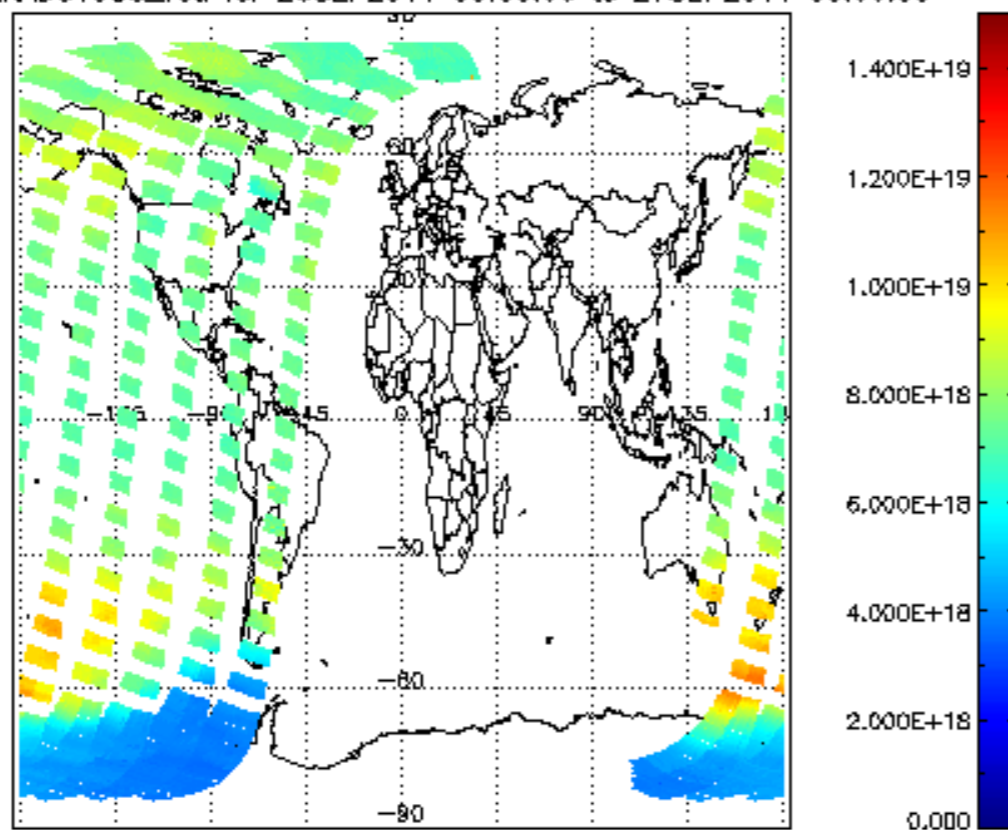


cloud_flags for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

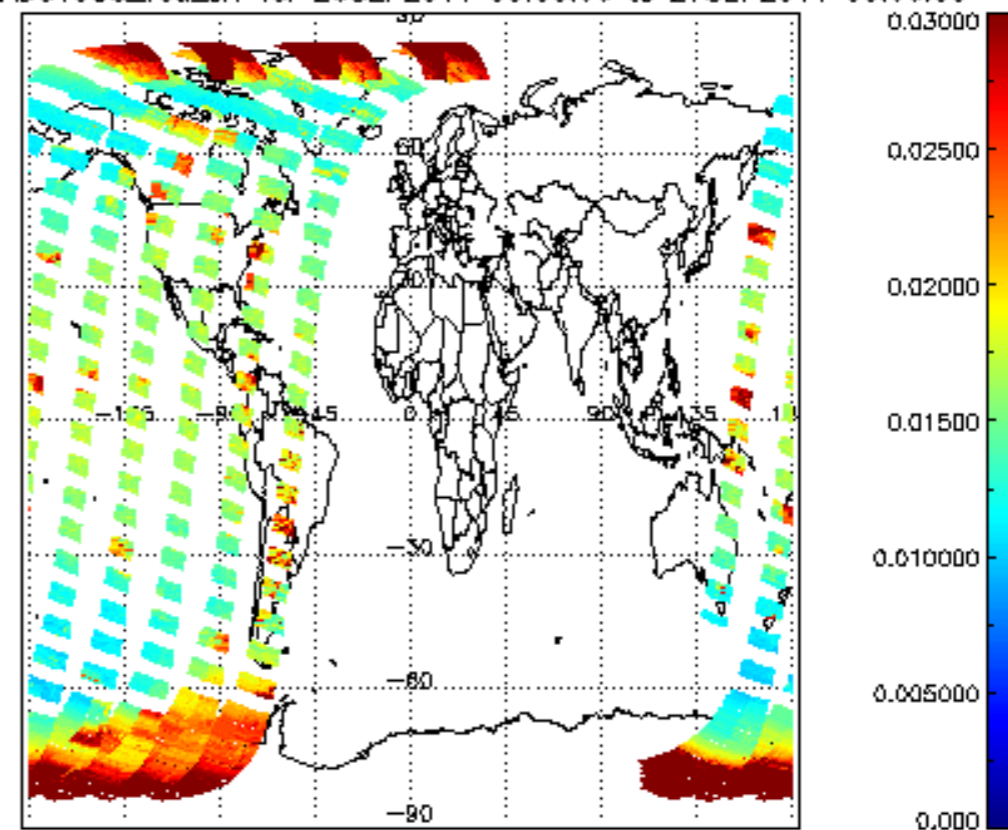




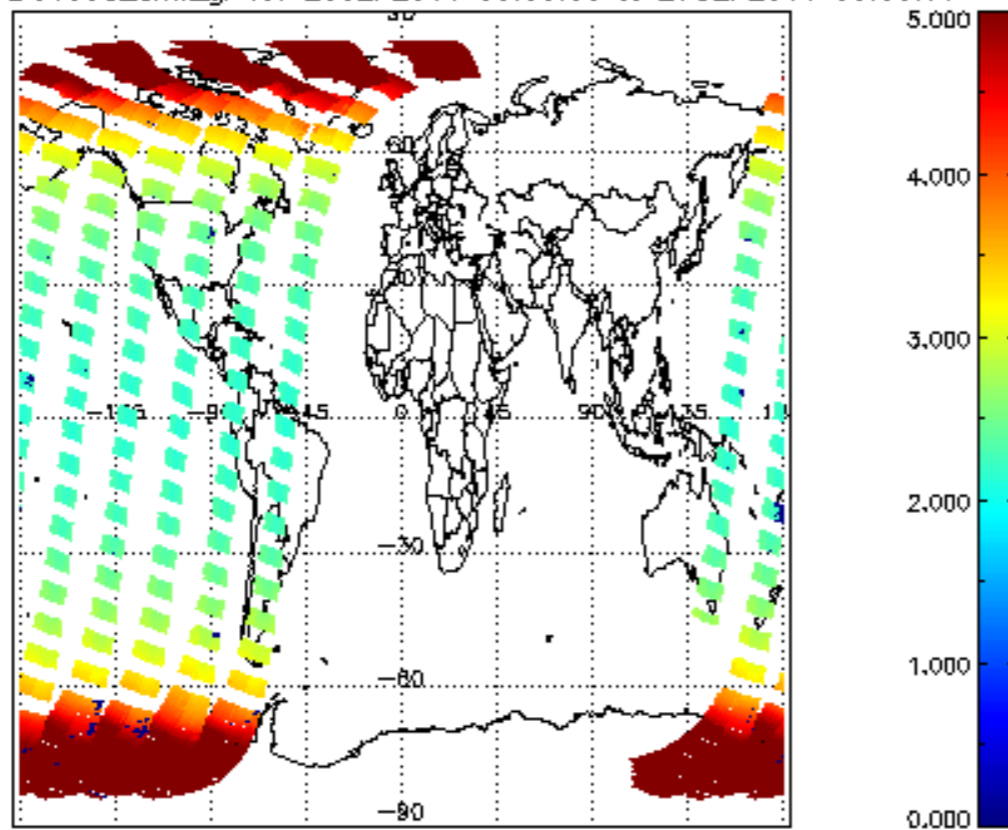
SCIOL2P_NADUV003_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



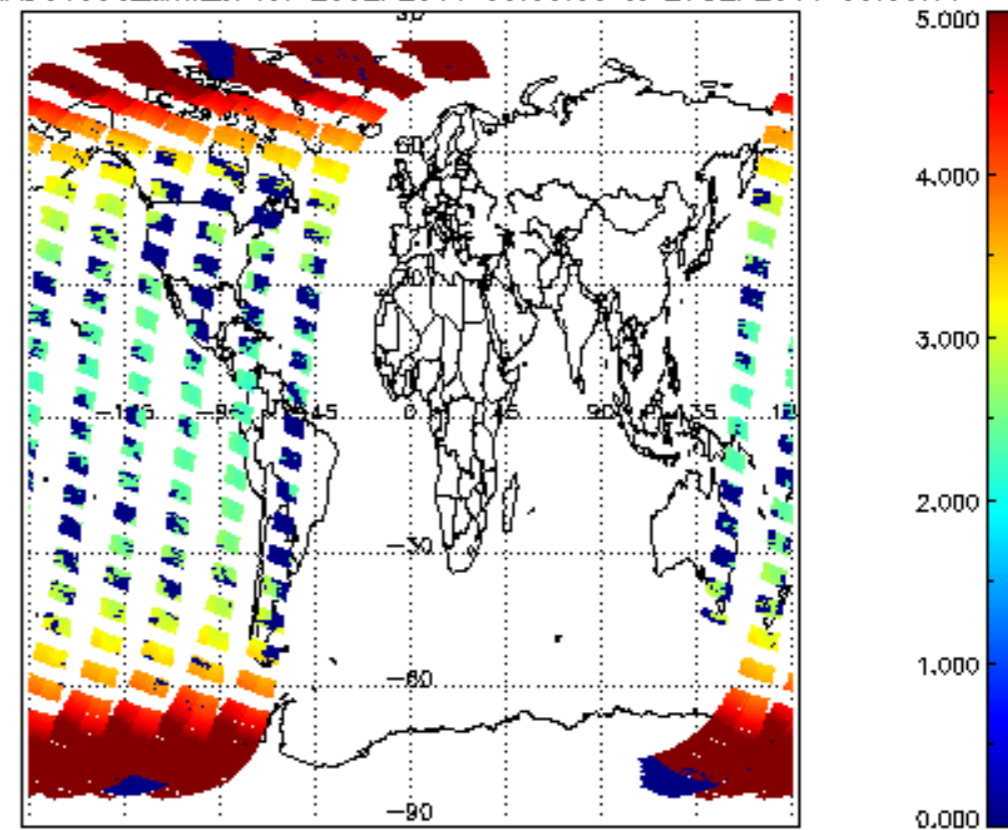
SCIOL2P_NADUV003_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

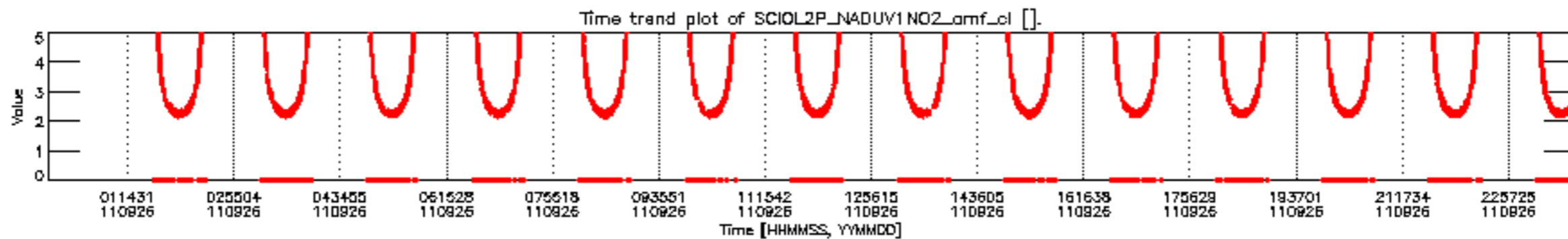
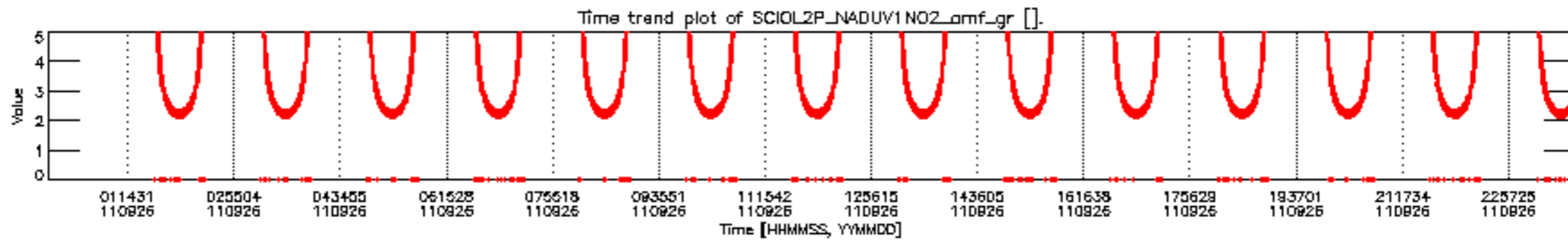
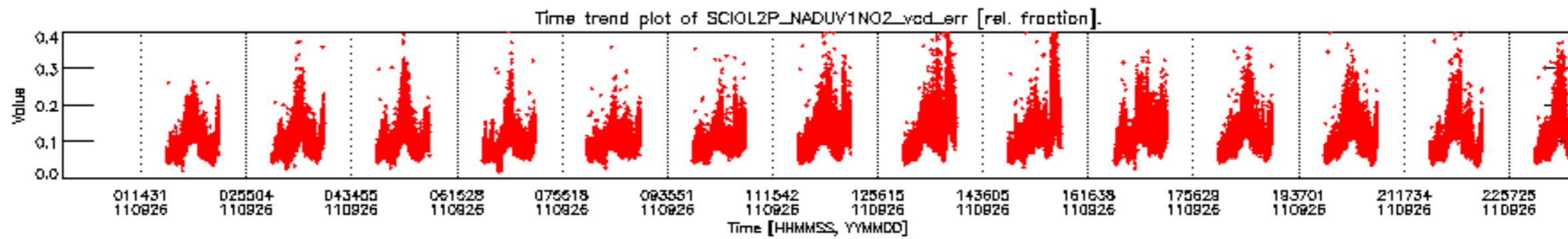
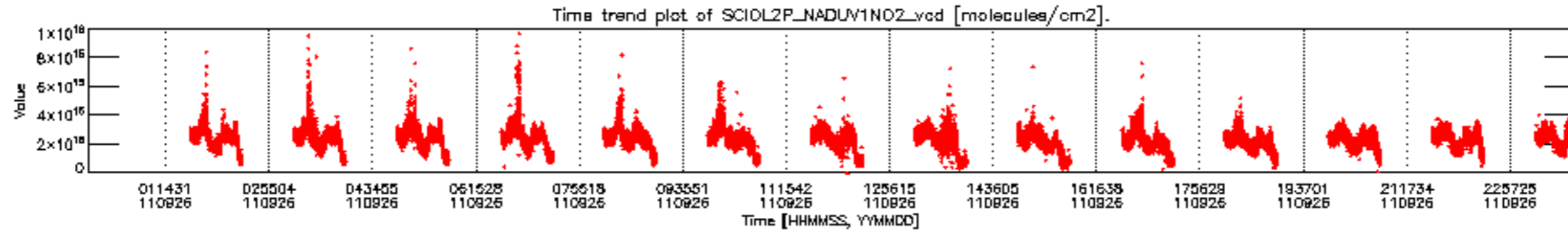


SCIOL2P_NADUV003_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

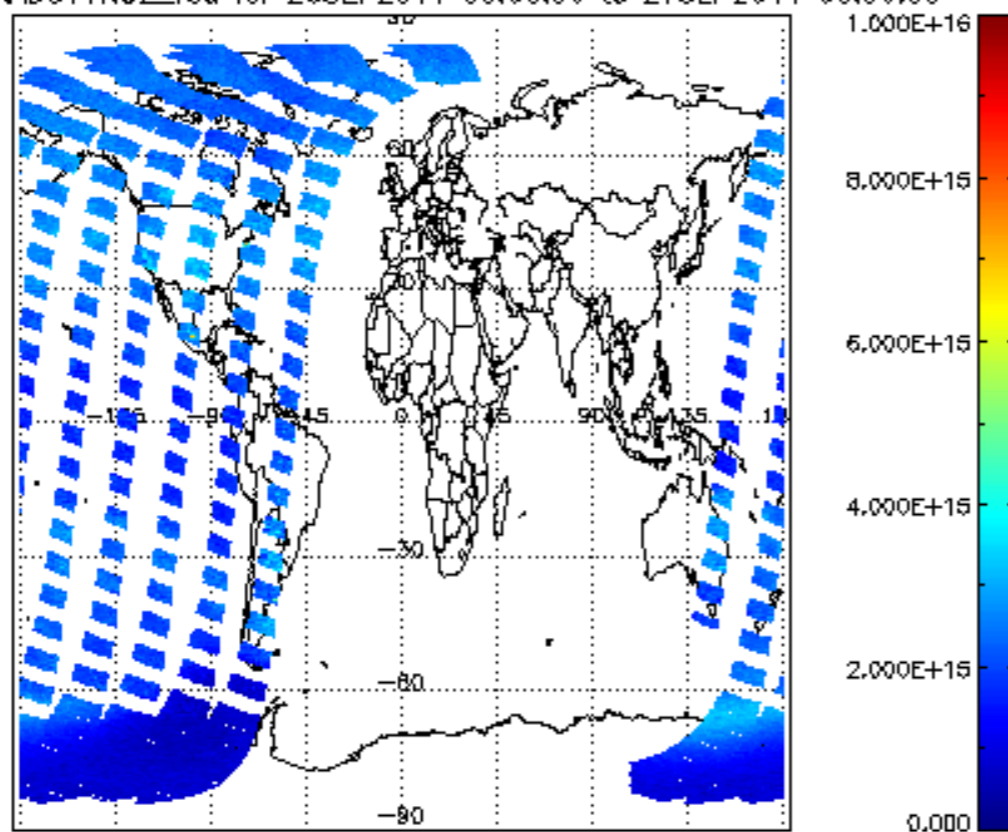


SCIOL2P_NADUV003_amf_cl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

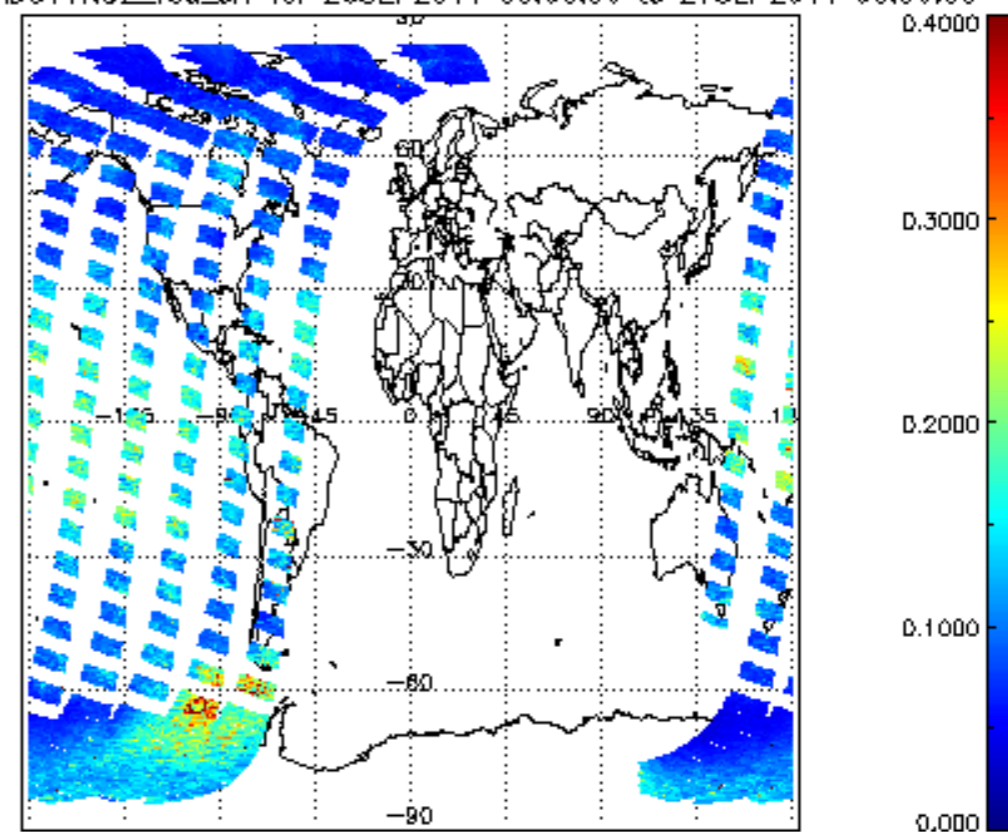




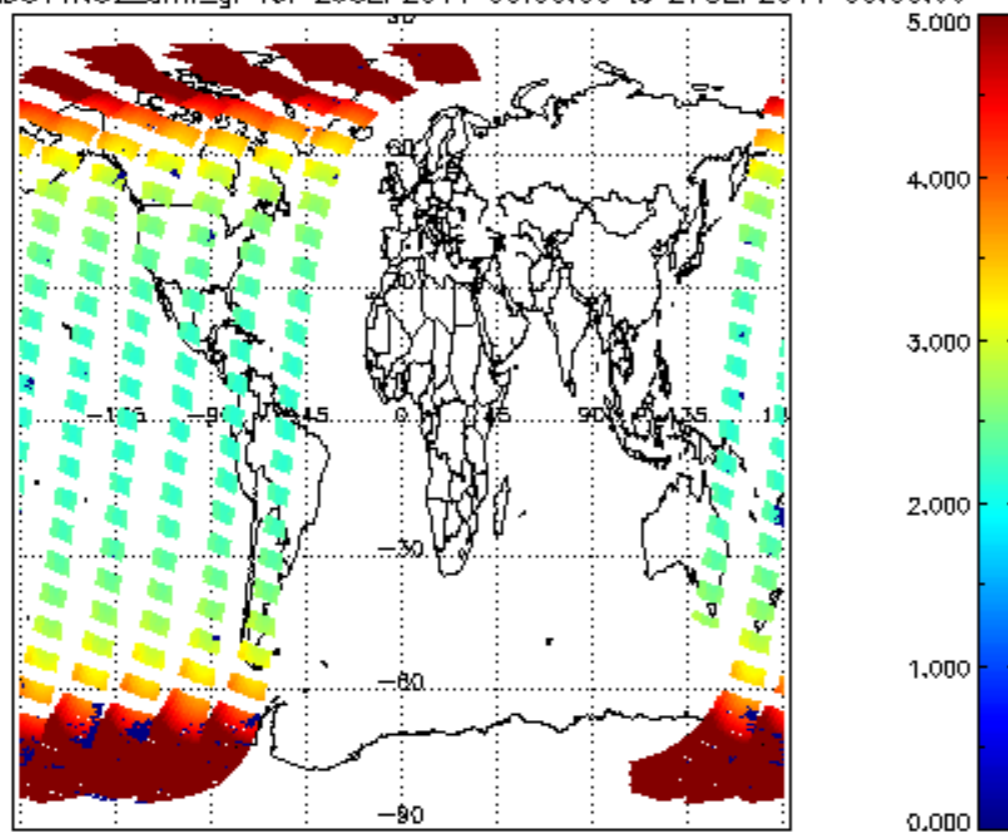
SCIOL2P_NADUV1NO2_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



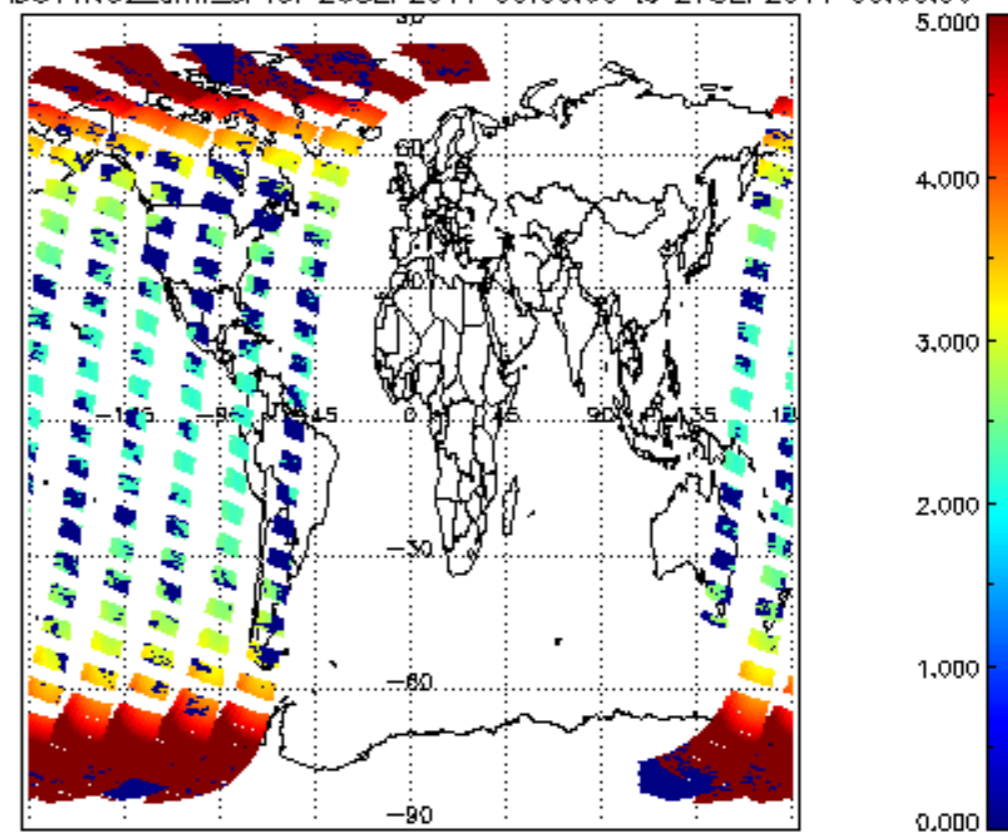
SCIOL2P_NADUV1NO2_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

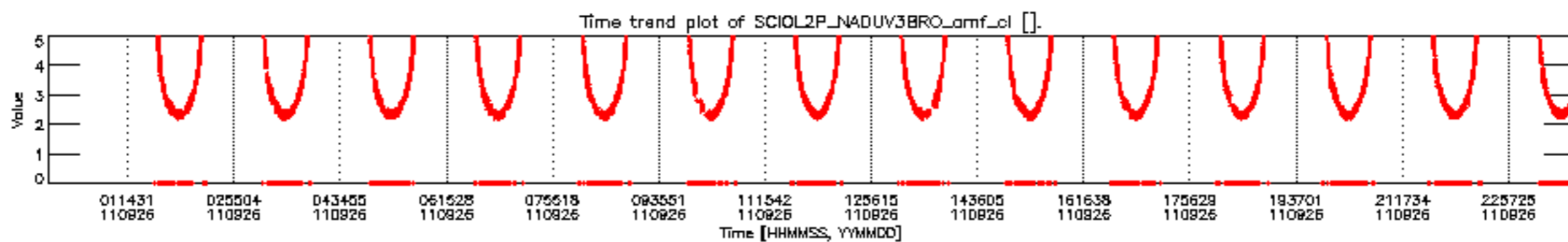
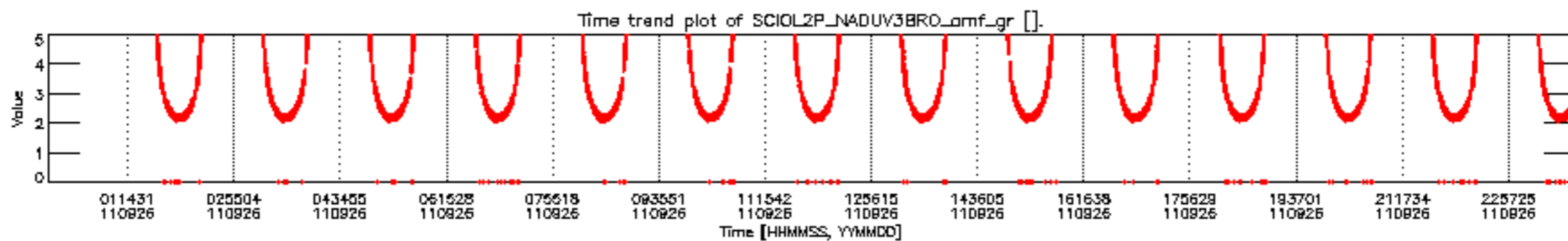
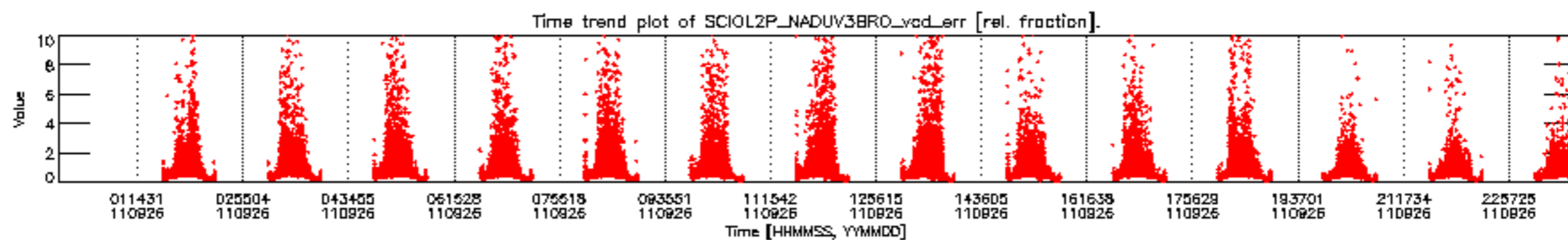
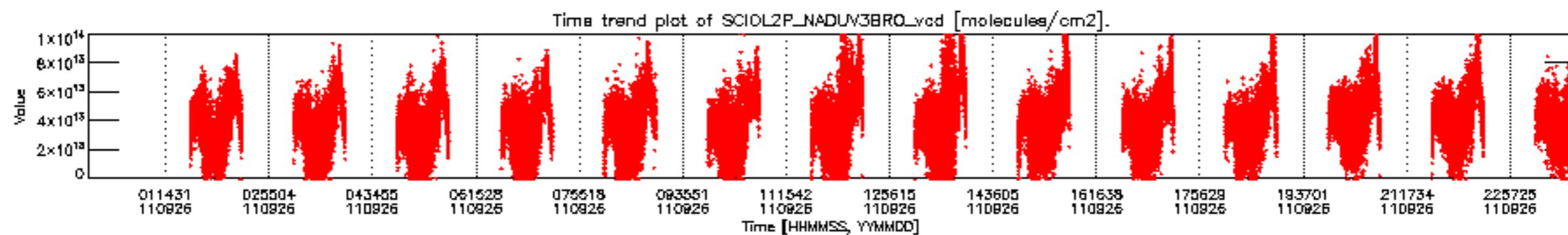


SCIOL2P_NADUV1NO2_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

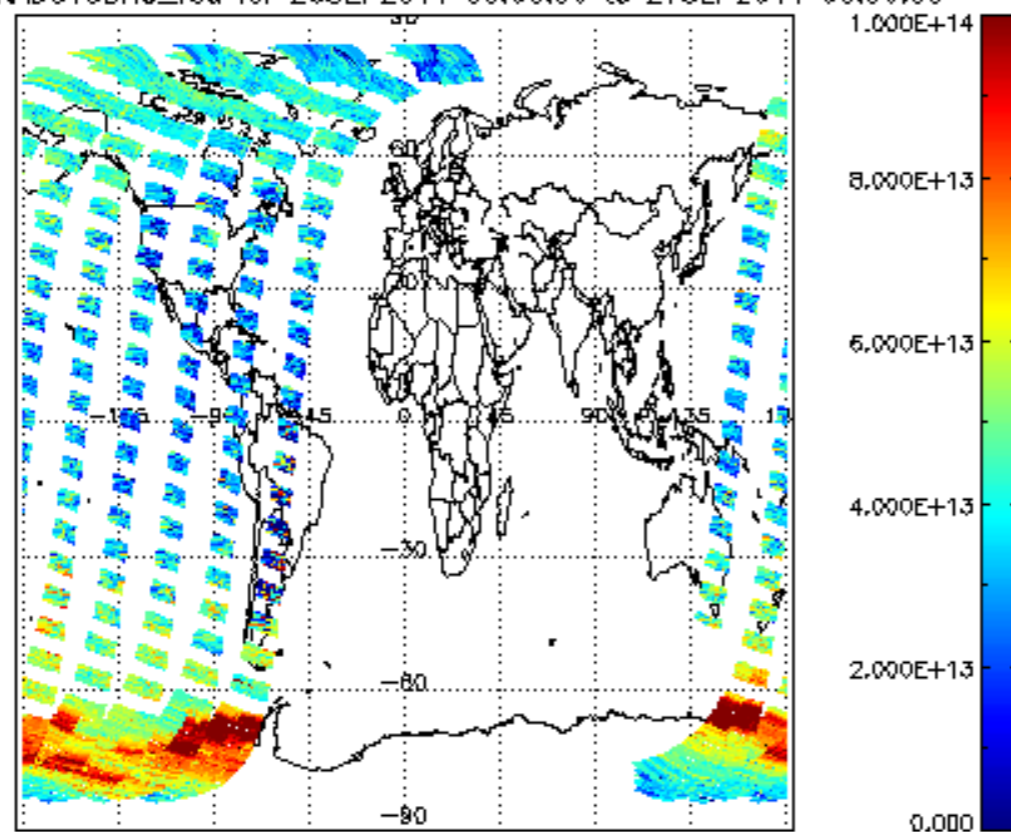


SCIOL2P_NADUV1NO2_amf_sl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

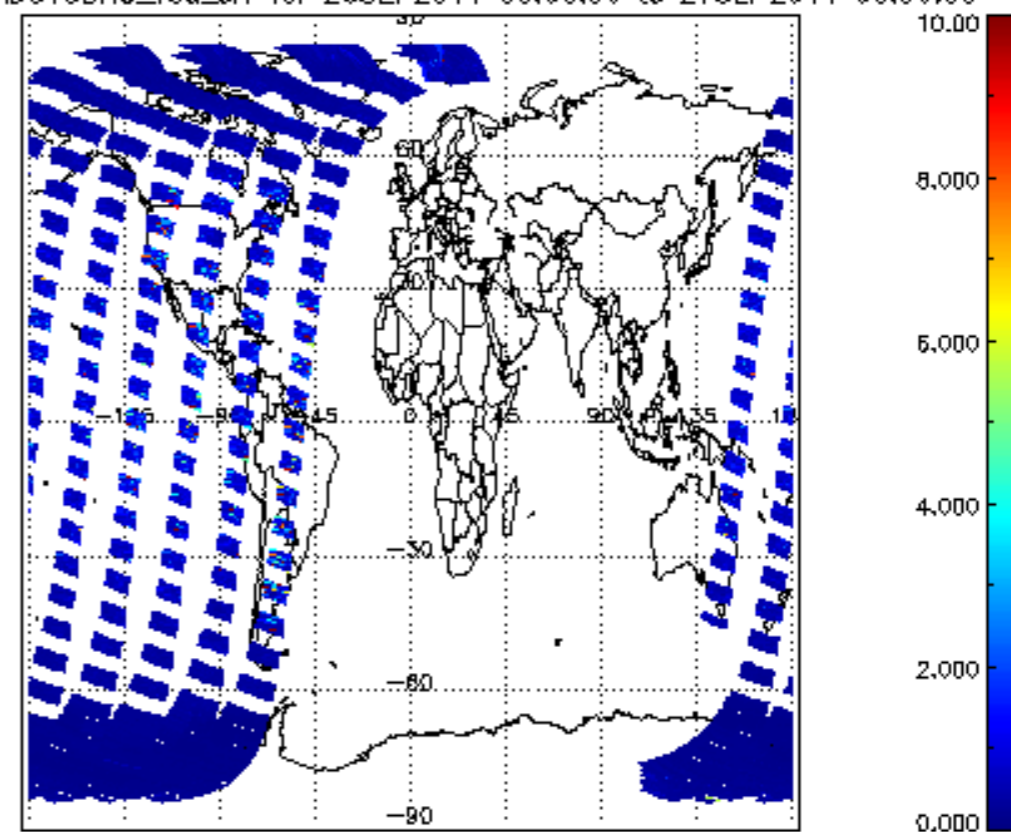




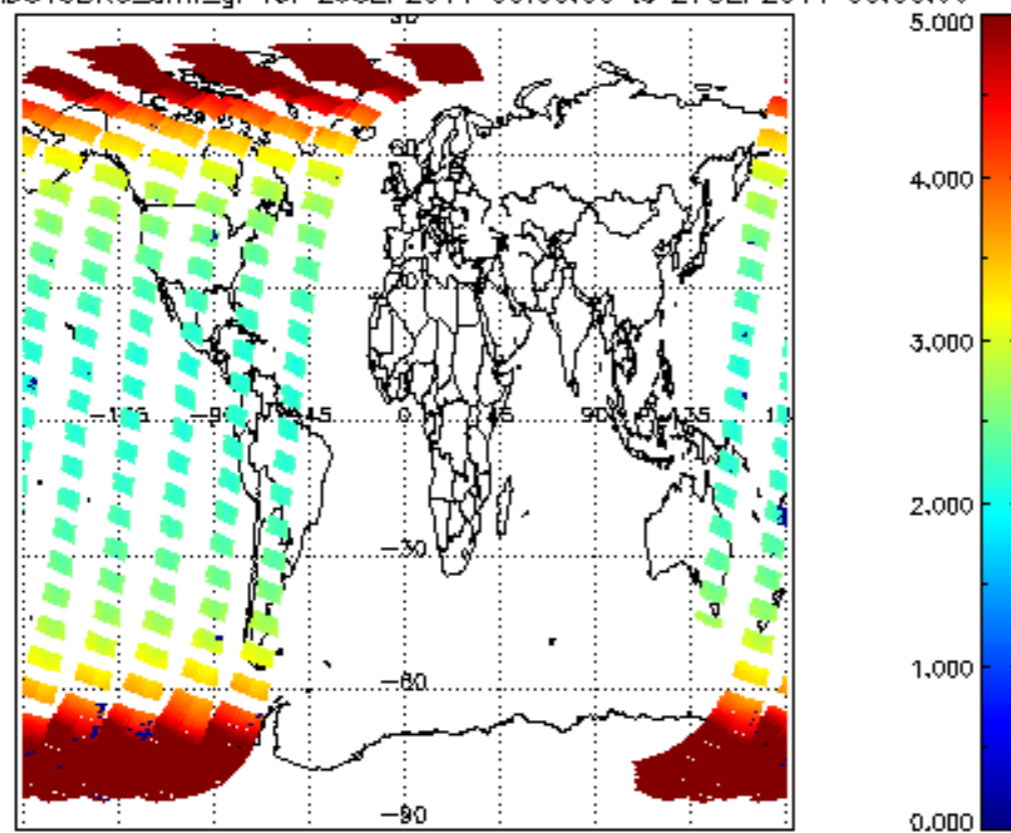
SCIOL2P_NADUV3BRO_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



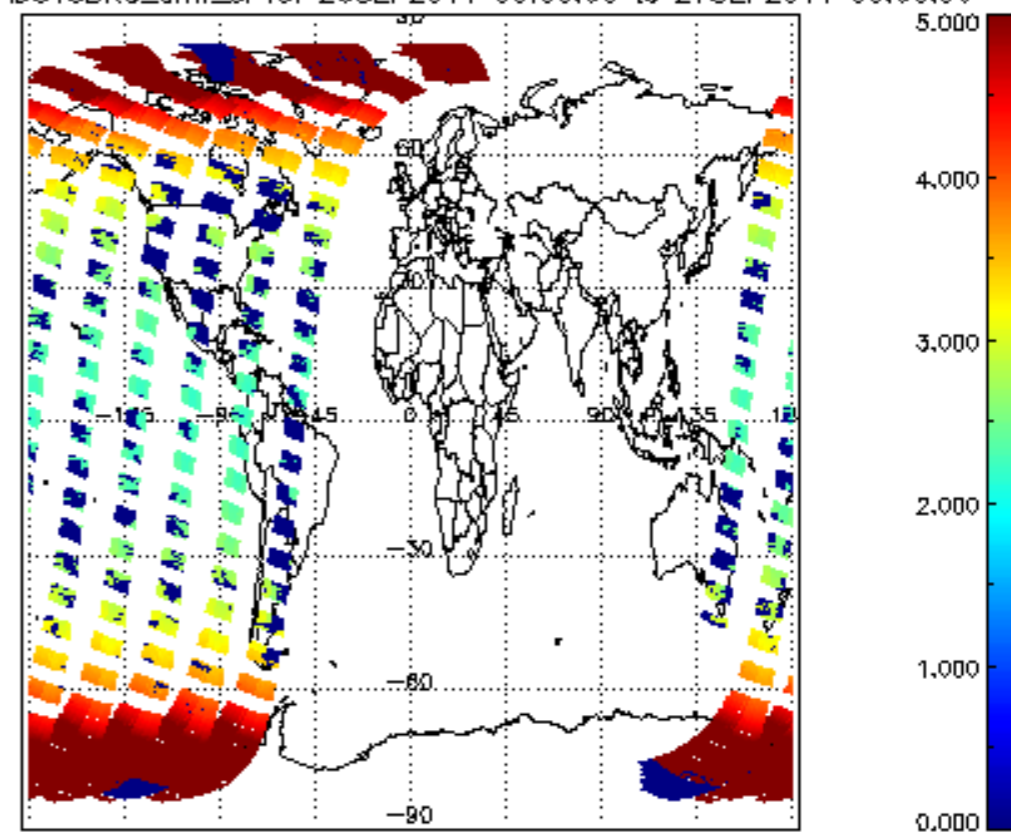
SCIOL2P_NADUV3BRO_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

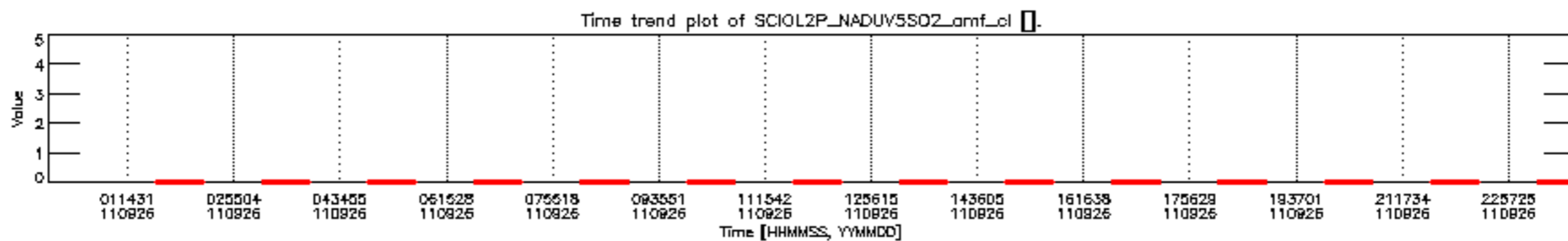
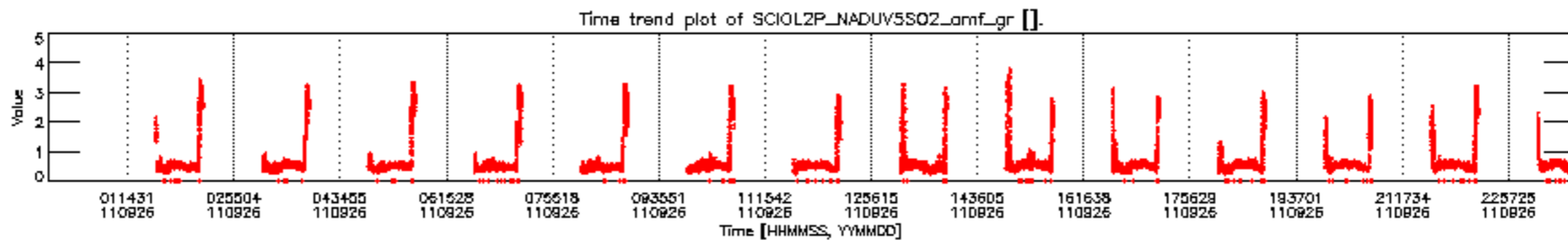
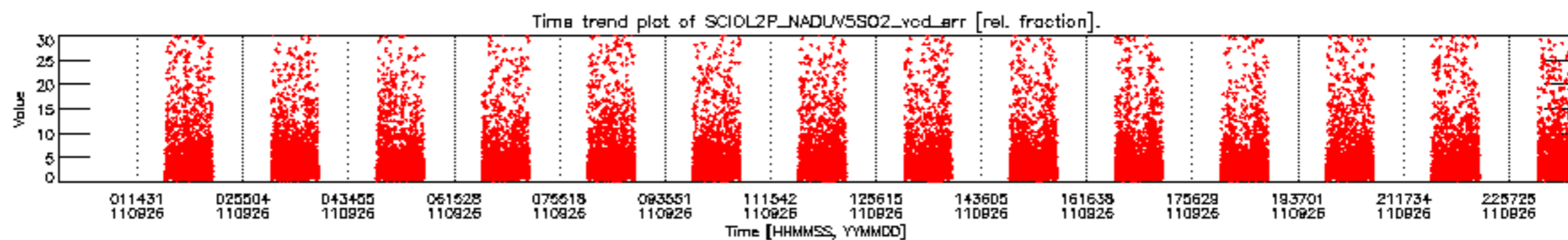
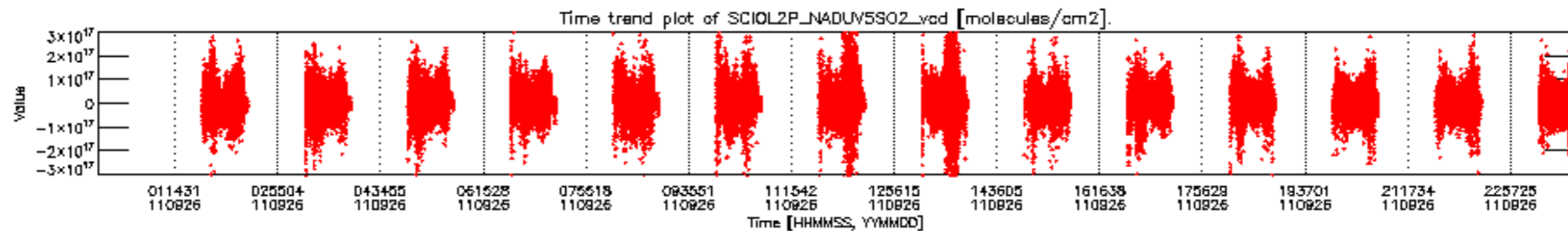


SCIOL2P_NADUV3BRO_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

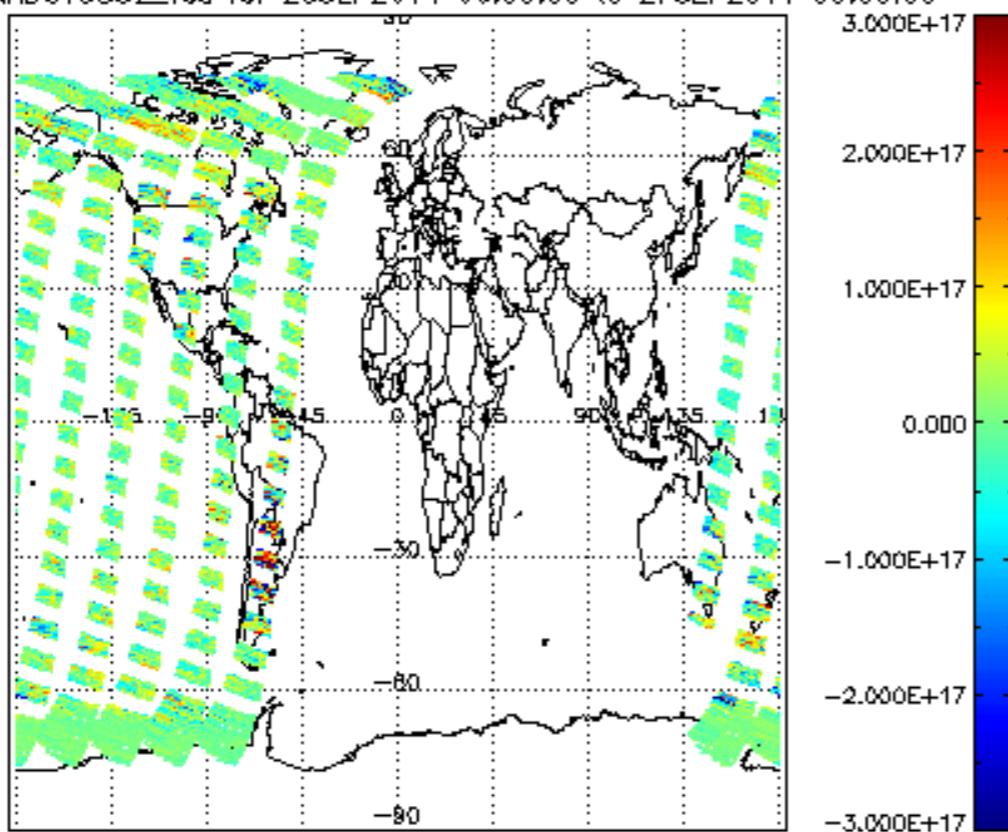


SCIOL2P_NADUV3BRO_amf_cl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

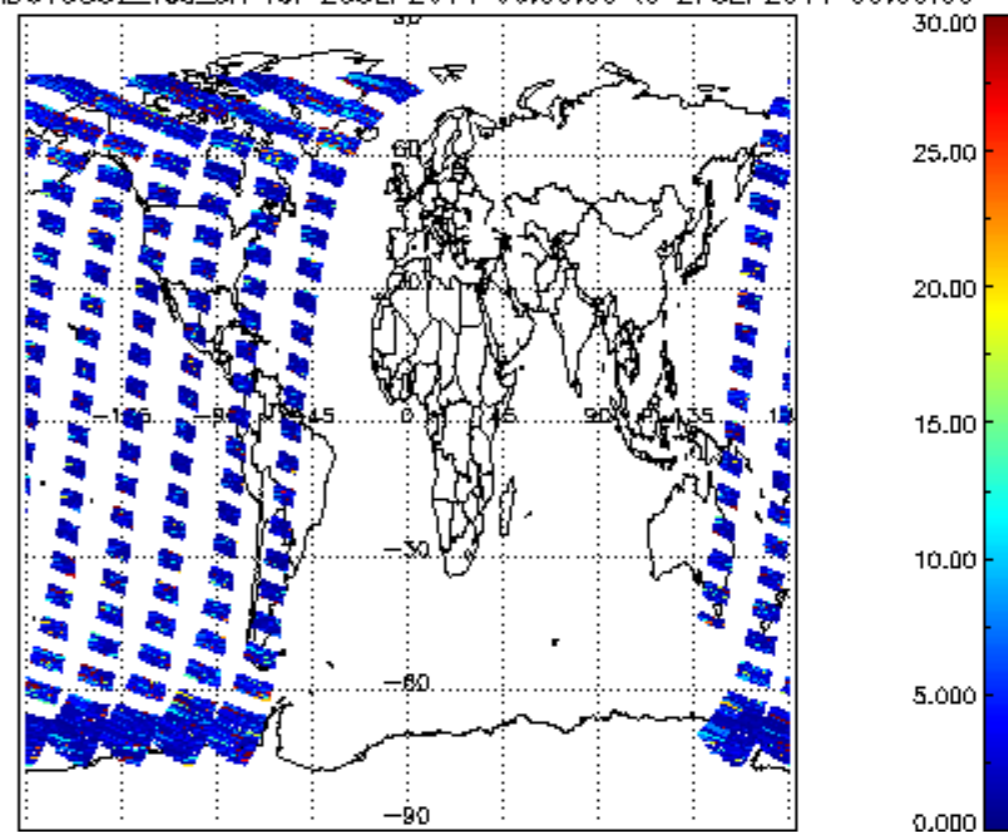




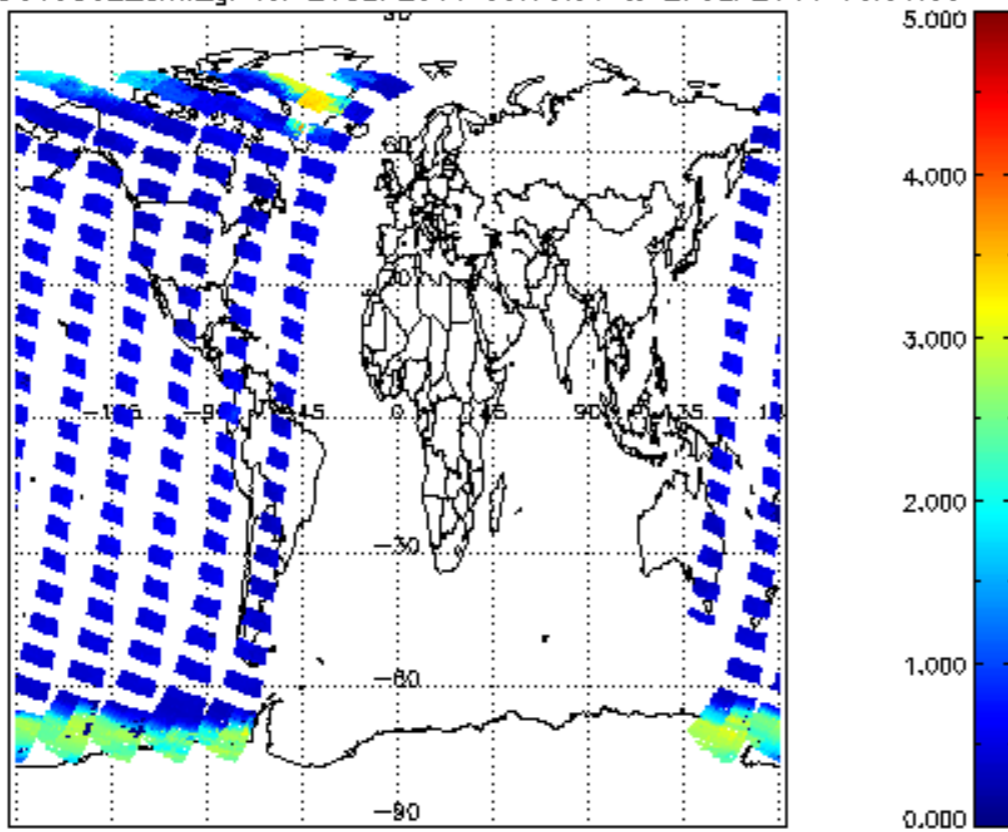
SCIOL2P_NADUV5S02_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



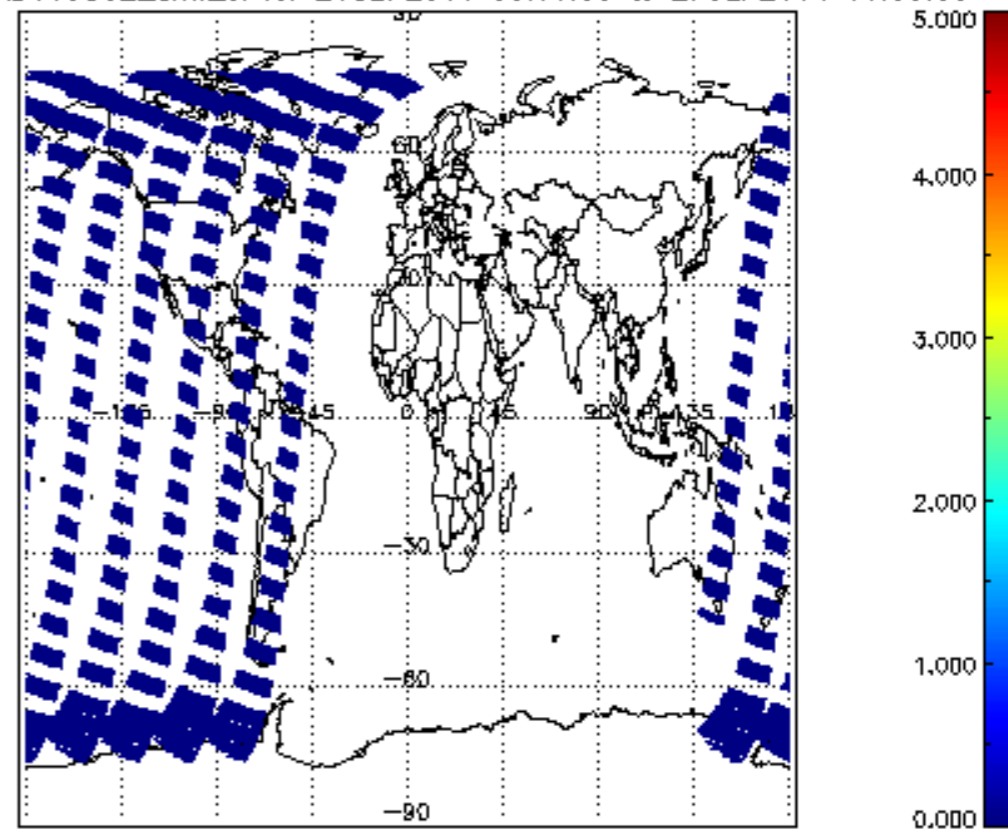
SCIOL2P_NADUV5S02_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

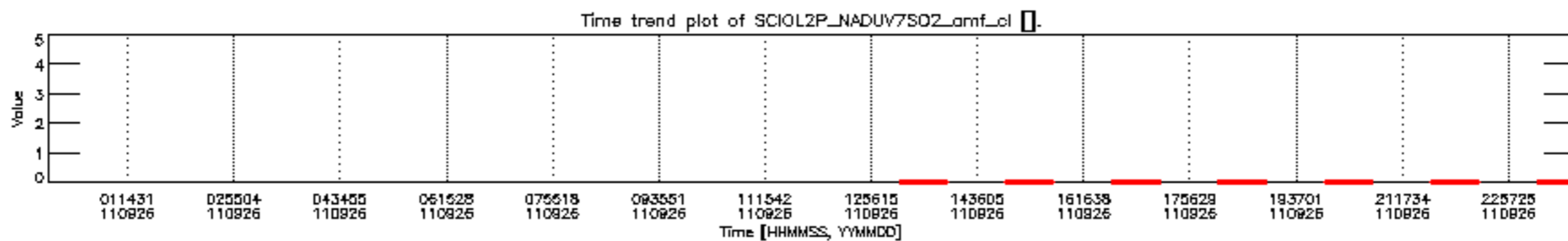
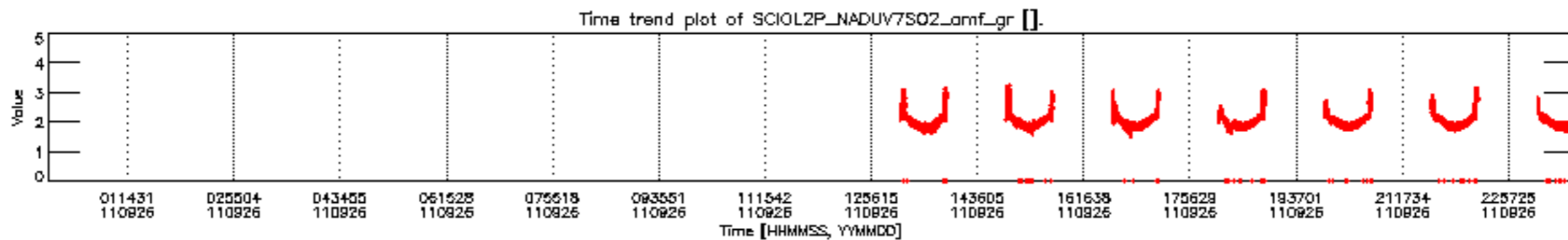
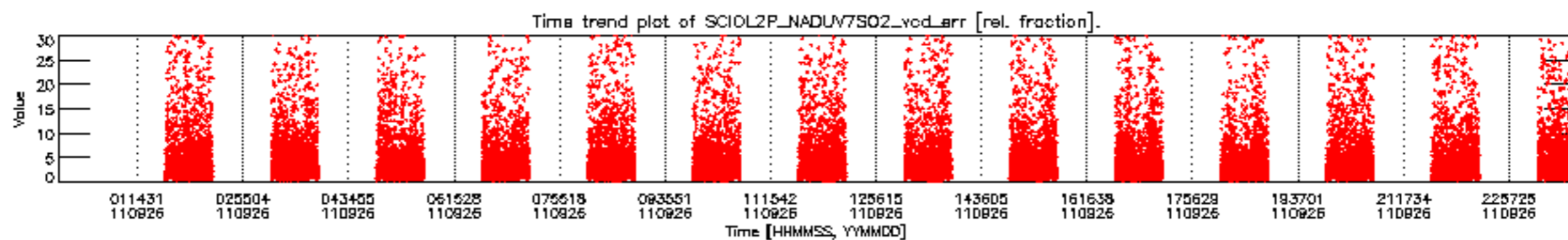
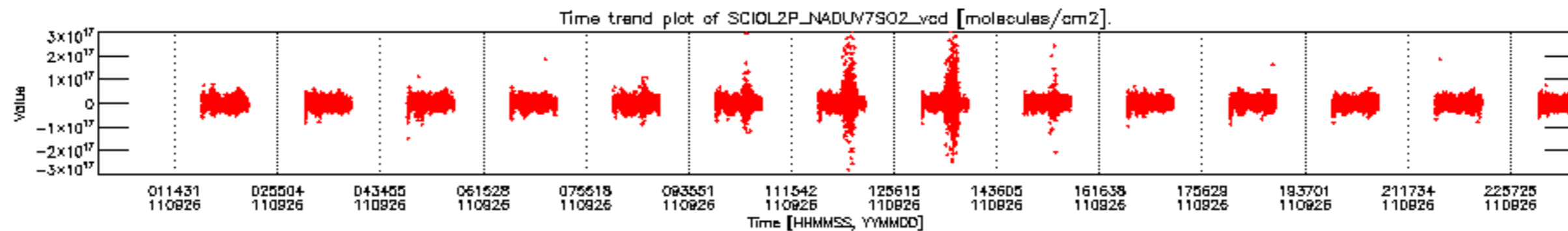


SCIOL2P_NADUV5S02_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

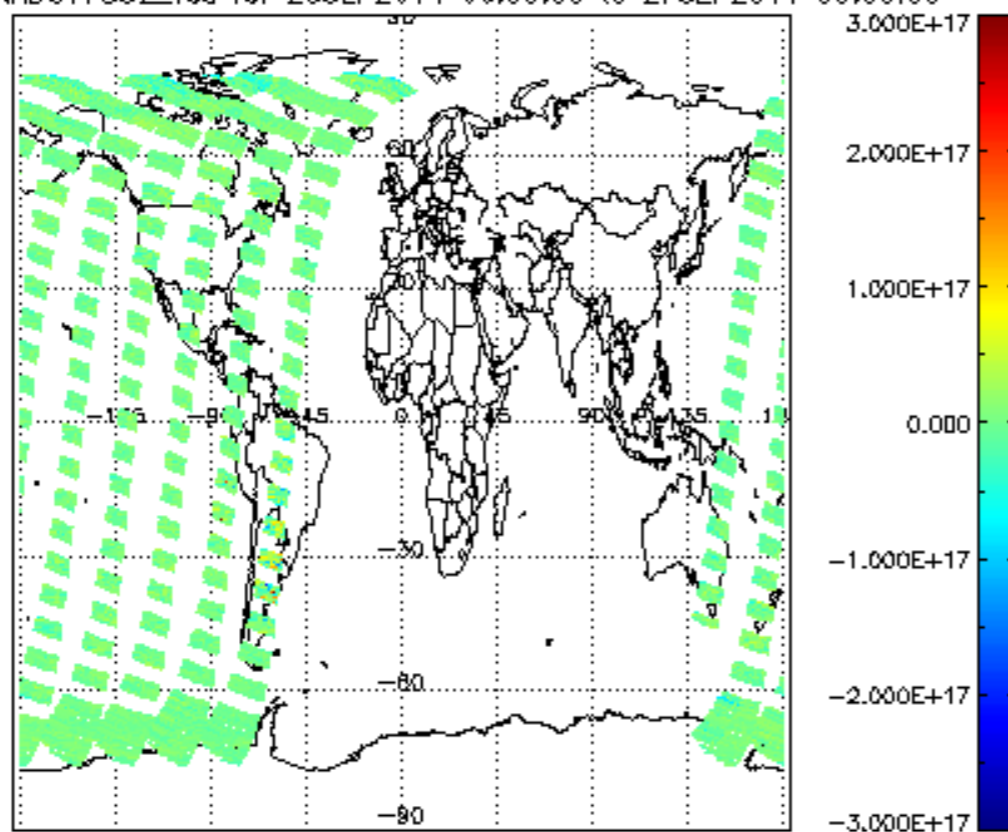


SCIOL2P_NADUV5S02_amf_cl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

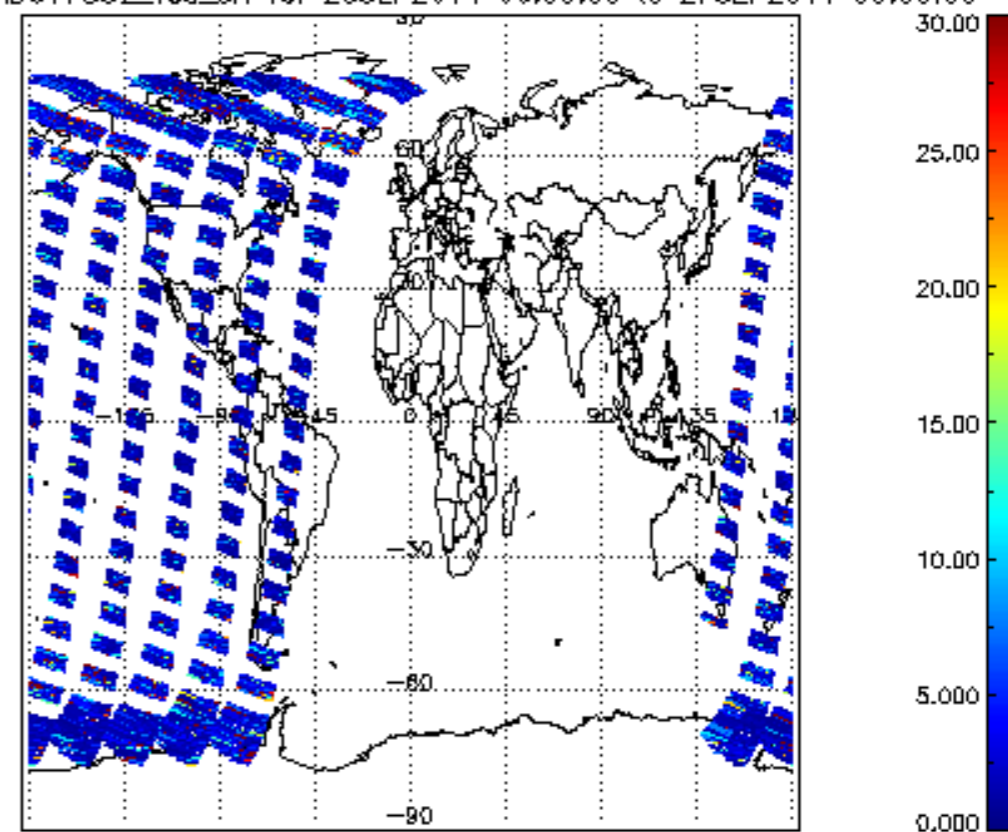




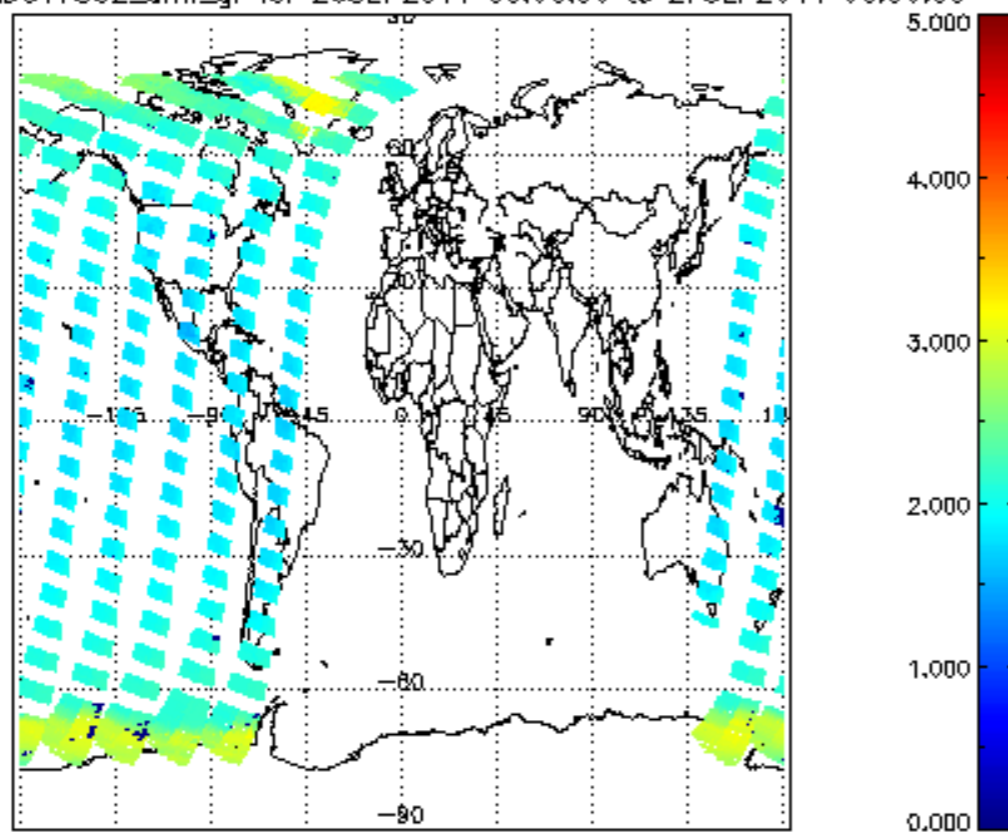
SCIOL2P_NADUV7S02_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



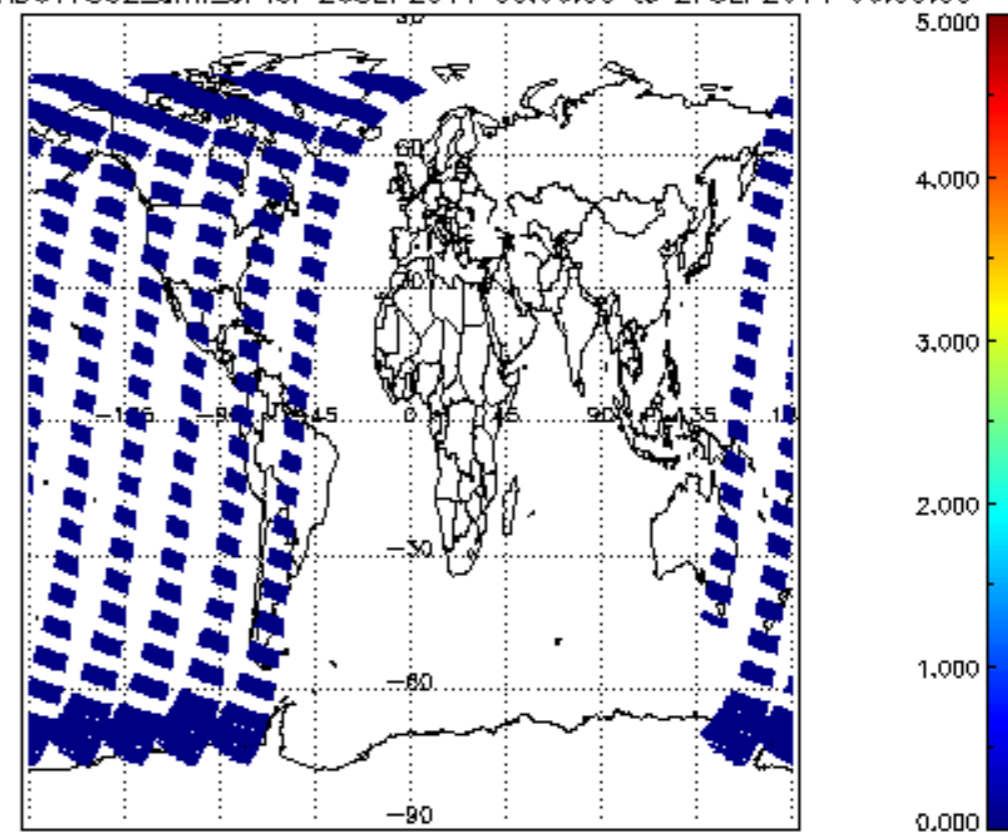
SCIOL2P_NADUV7S02_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

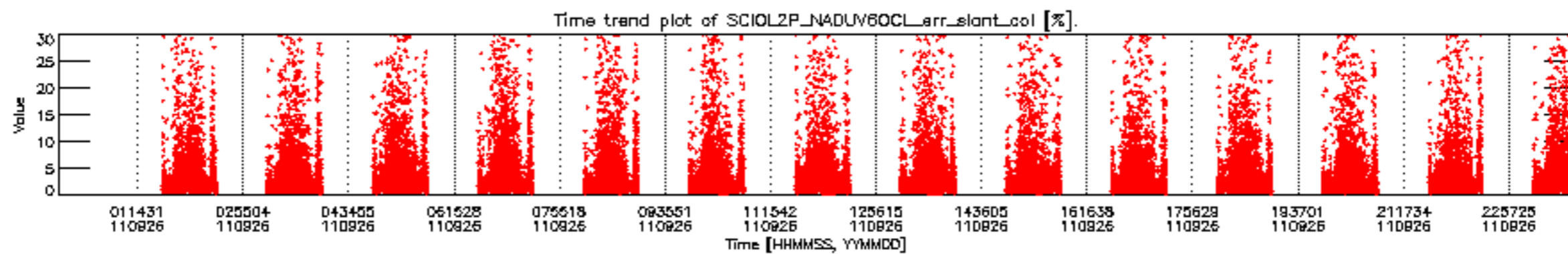
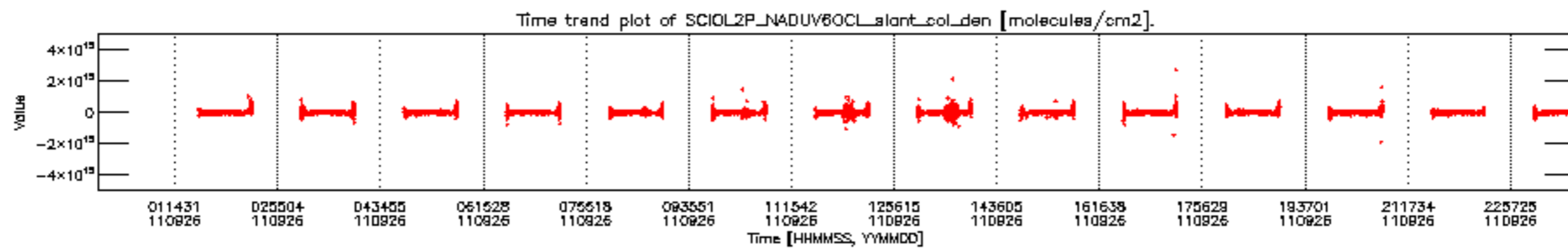


SCIOL2P_NADUV7S02_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

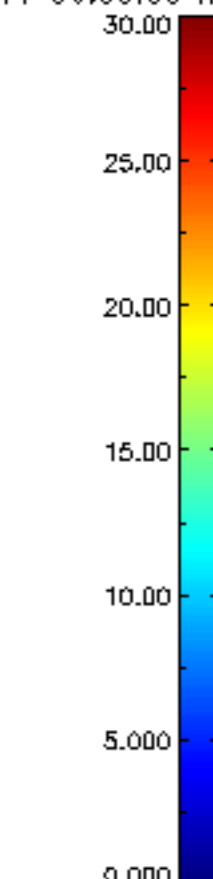
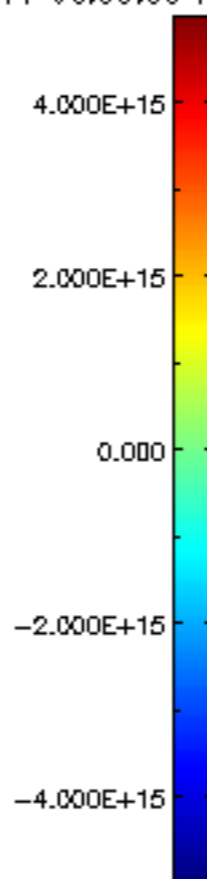
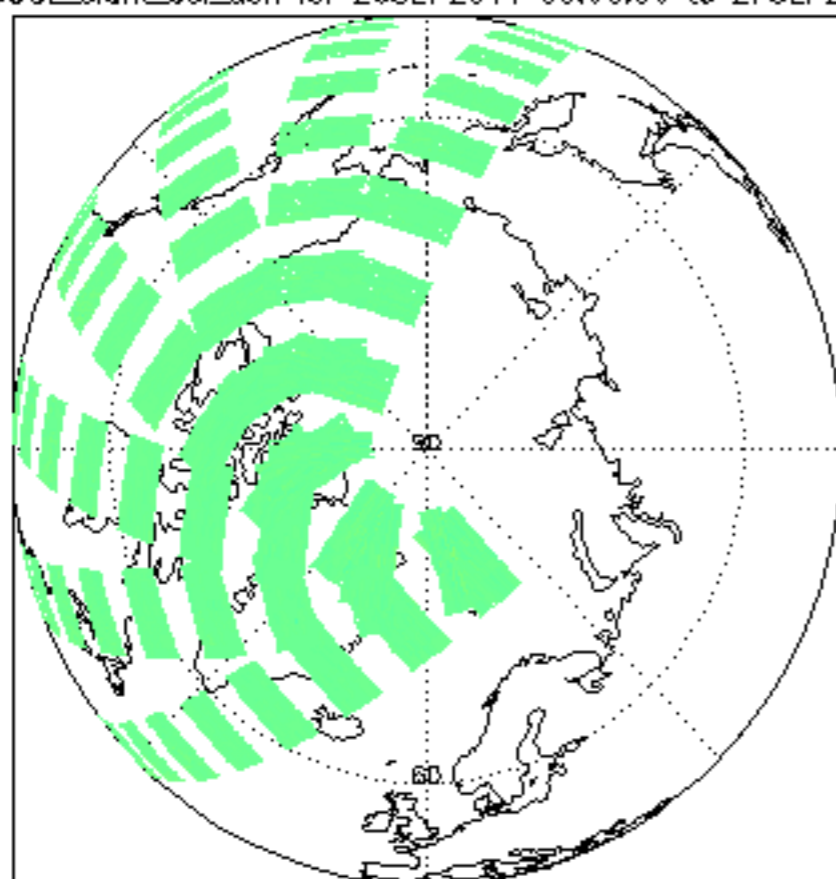


SCIOL2P_NADUV7S02_amf_cl for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

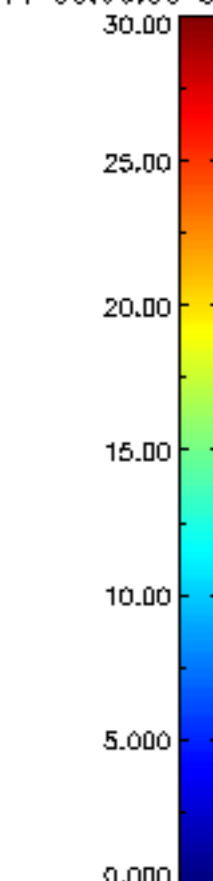
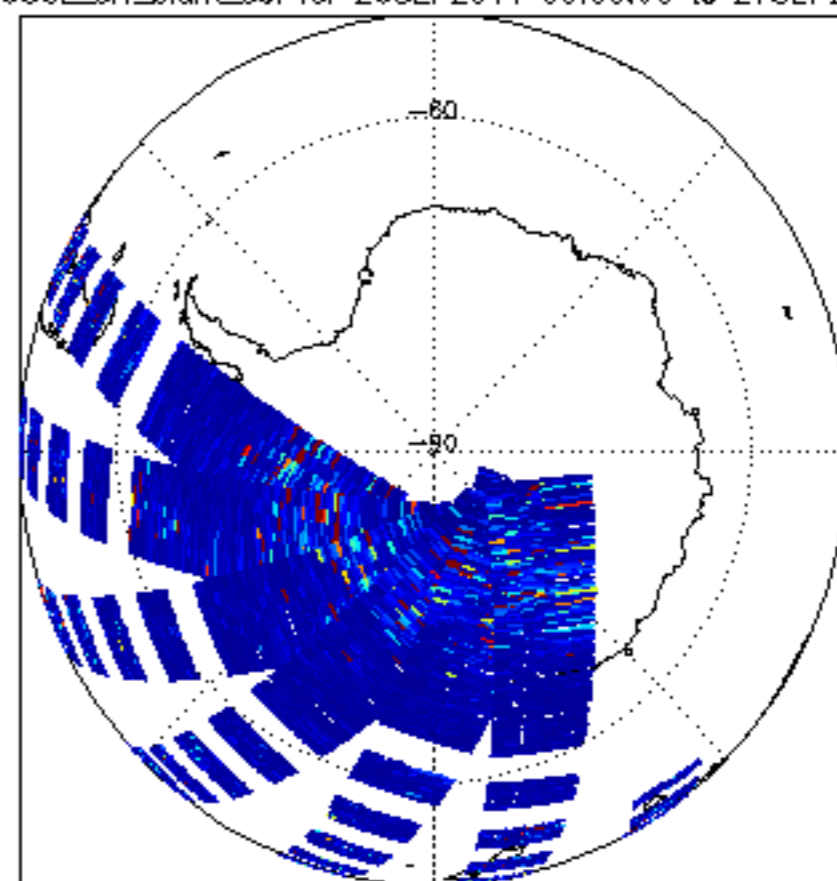
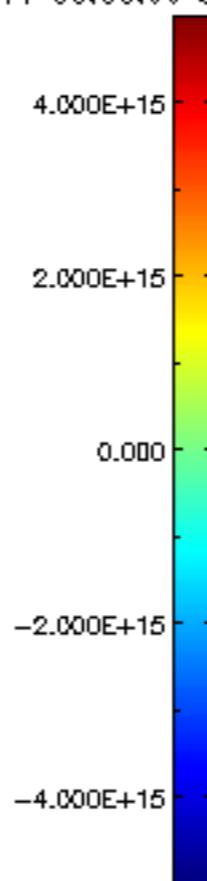
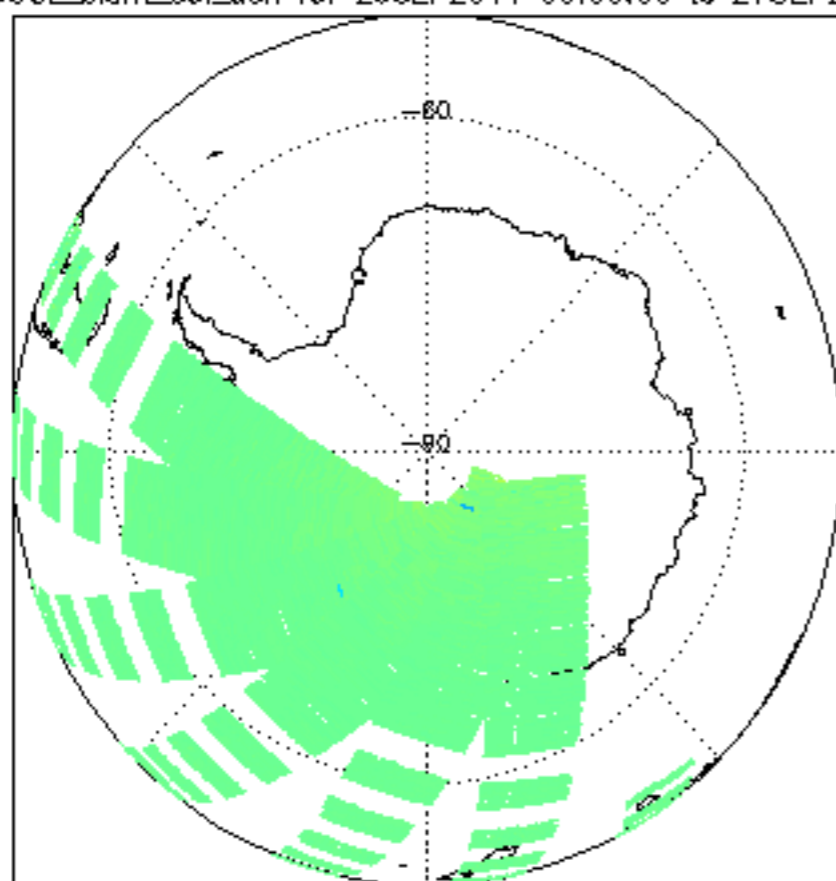


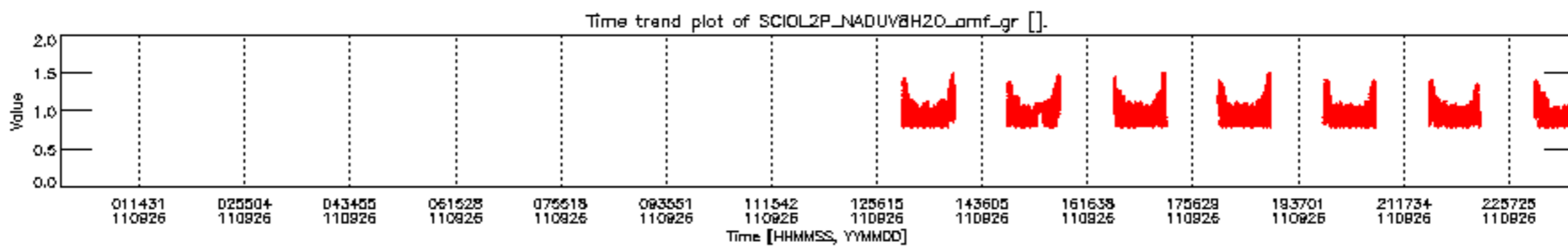
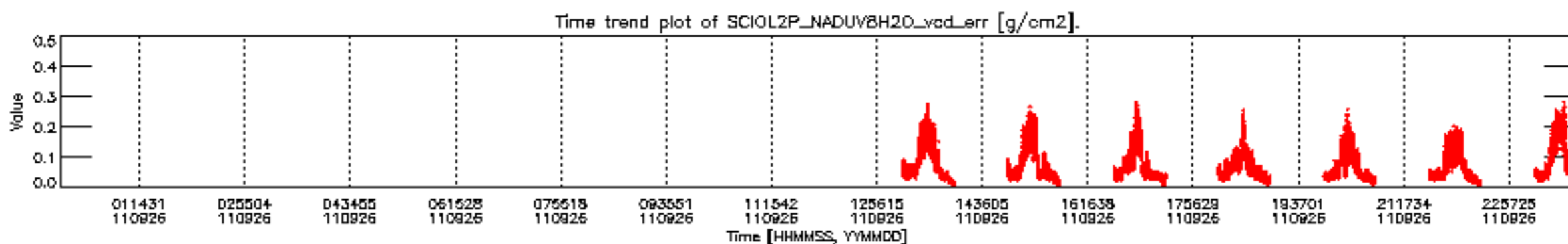
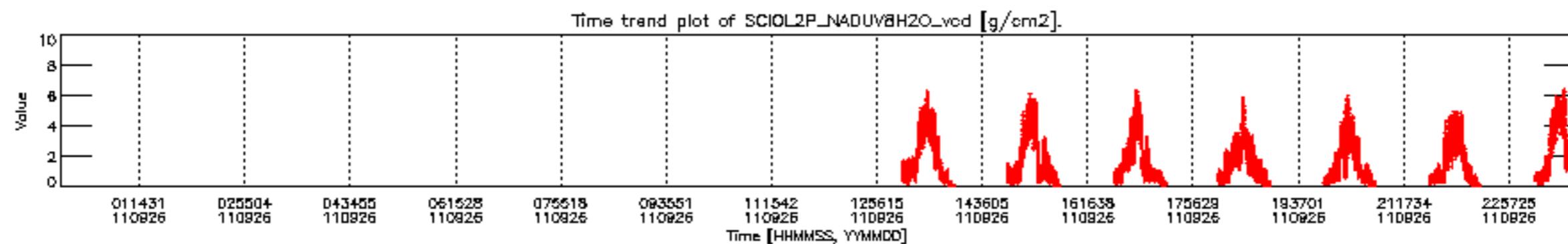


CIOL2P_NADUV6OCL_slant_col_den for 26SEP2011 00:00:00 to 27SEP2011 00:00:00 np iCIOL2P_NADUV6OCL_err_slant_col for 26SEP2011 00:00:00 to 27SEP2011 00:00:00 np

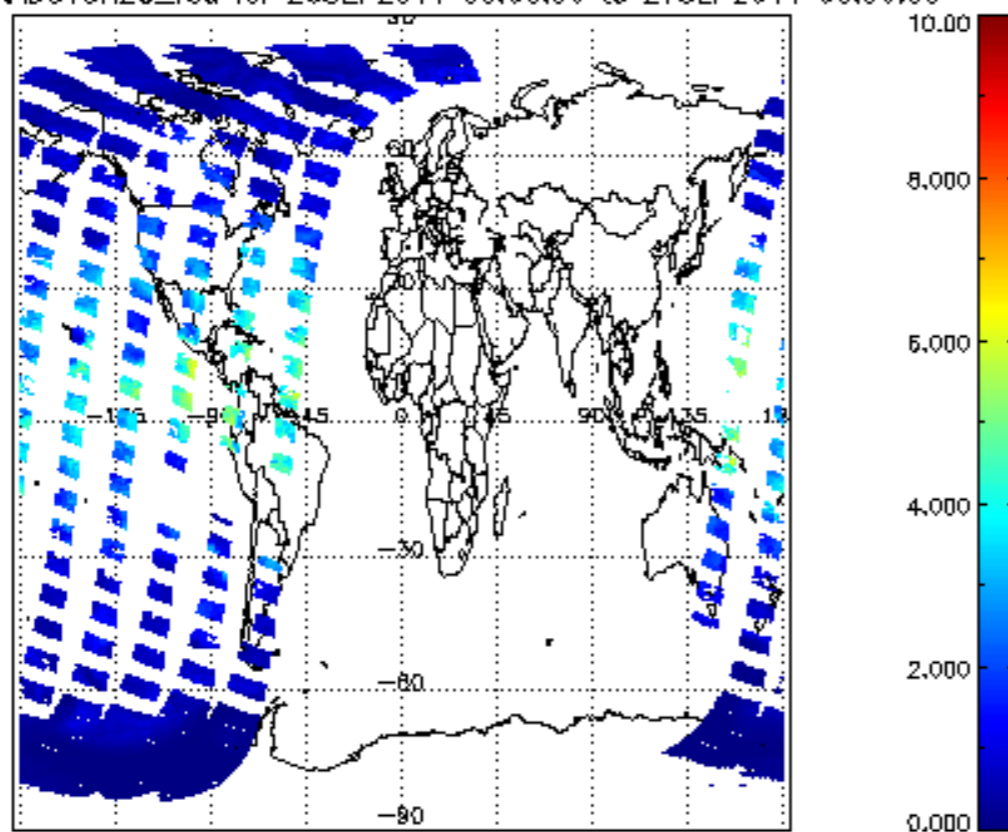


CIOL2P_NADUV60CL_slant_col_den for 26SEP2011 00:00:00 to 27SEP2011 00:00:00 sp iCIOL2P_NADUV60CL_err_slant_col for 26SEP2011 00:00:00 to 27SEP2011 00:00:00 sp

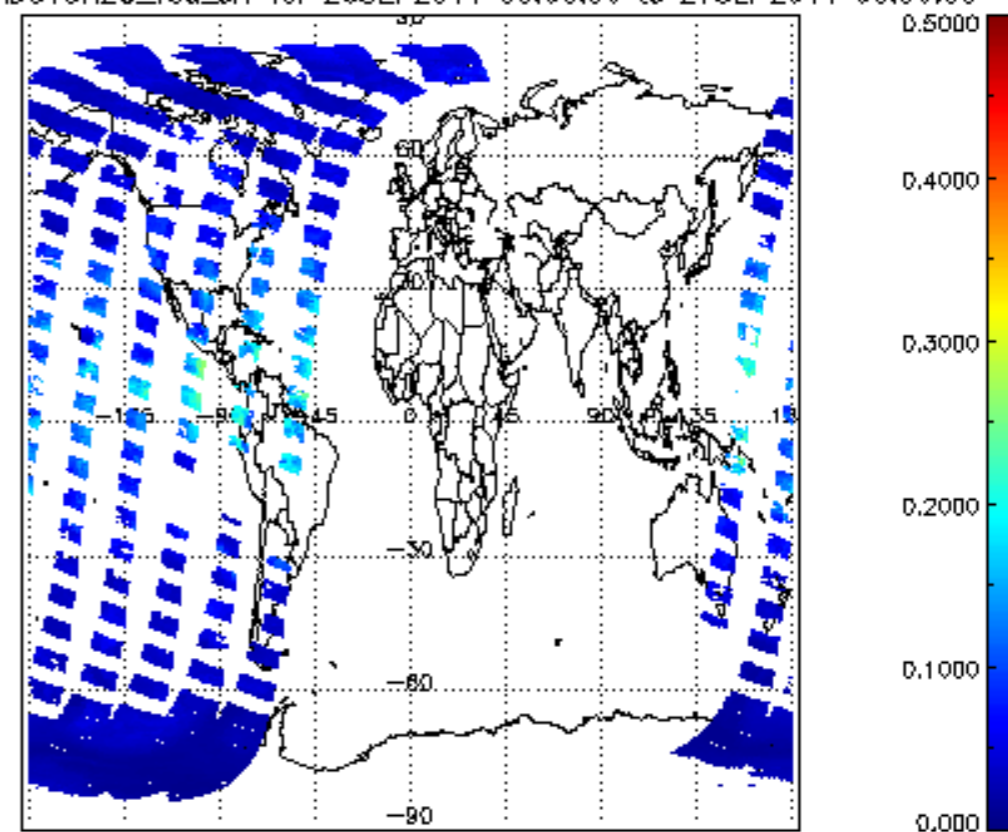




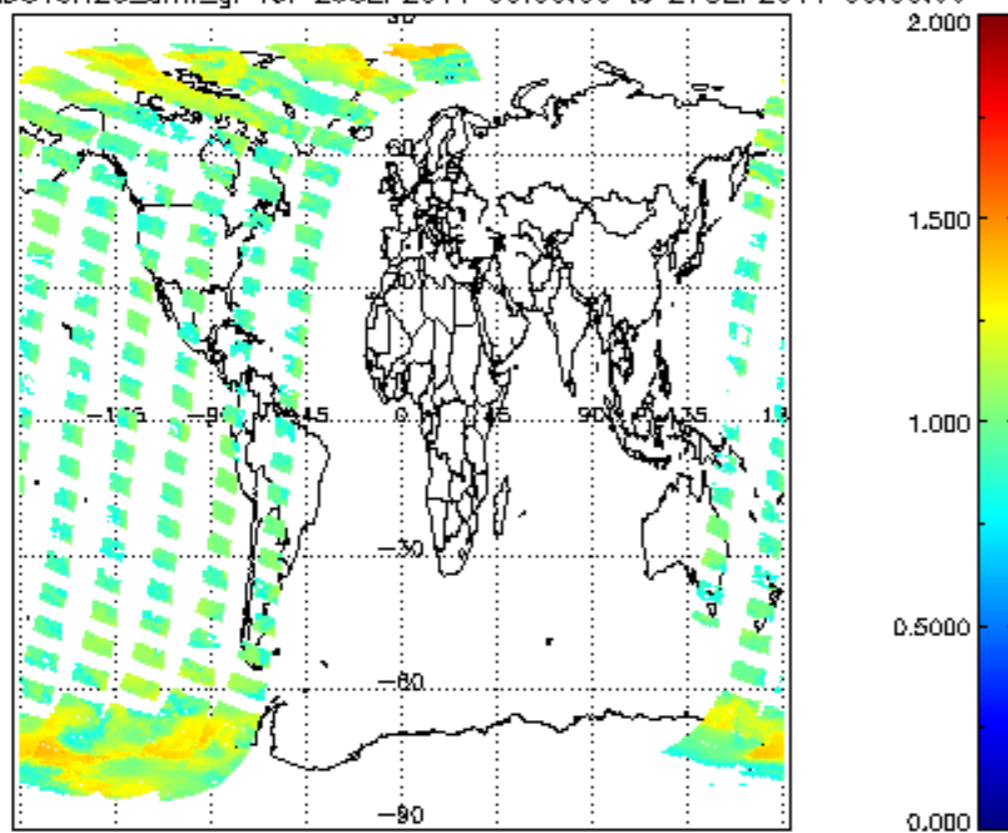
SCIOL2P_NADUV8H2O_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

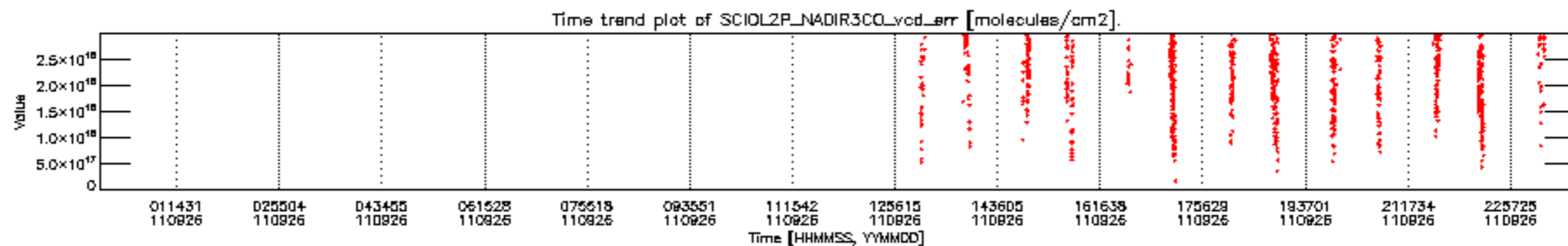
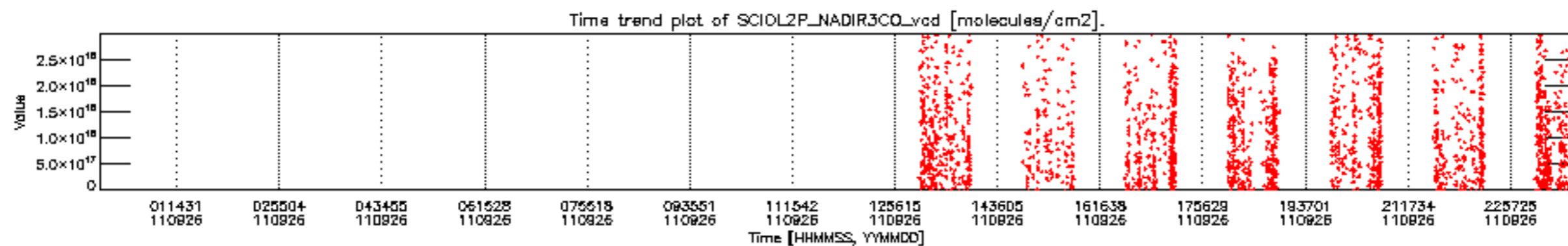


SCIOL2P_NADUV8H2O_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

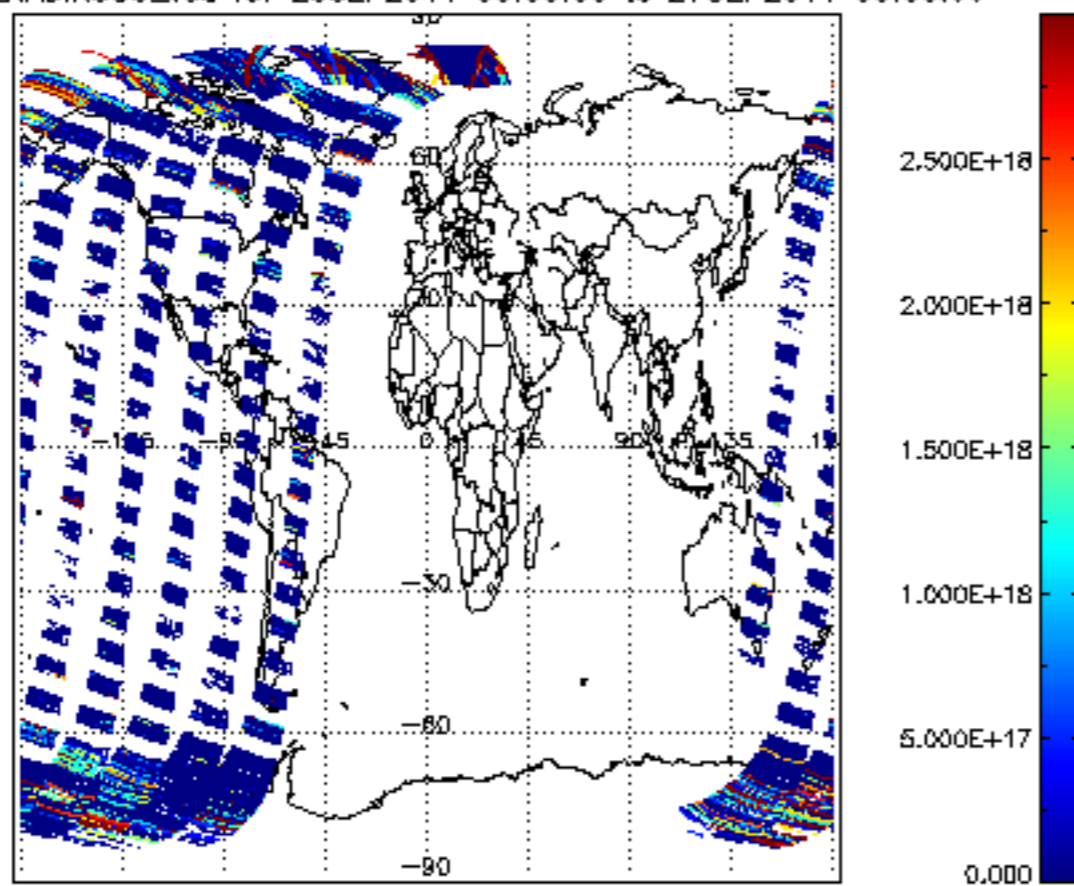


SCIOL2P_NADUV8H2O_amf_gr for 26SEP2011 00:00:00 to 27SEP2011 00:00:00

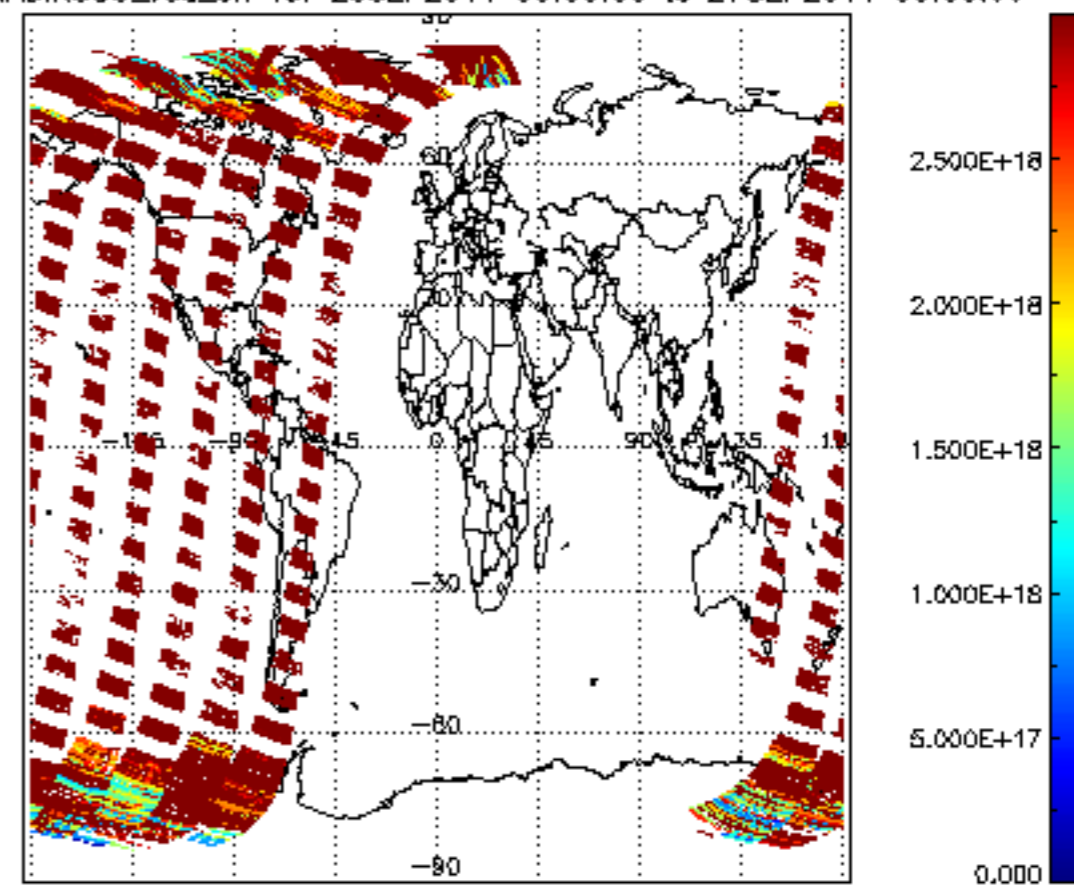




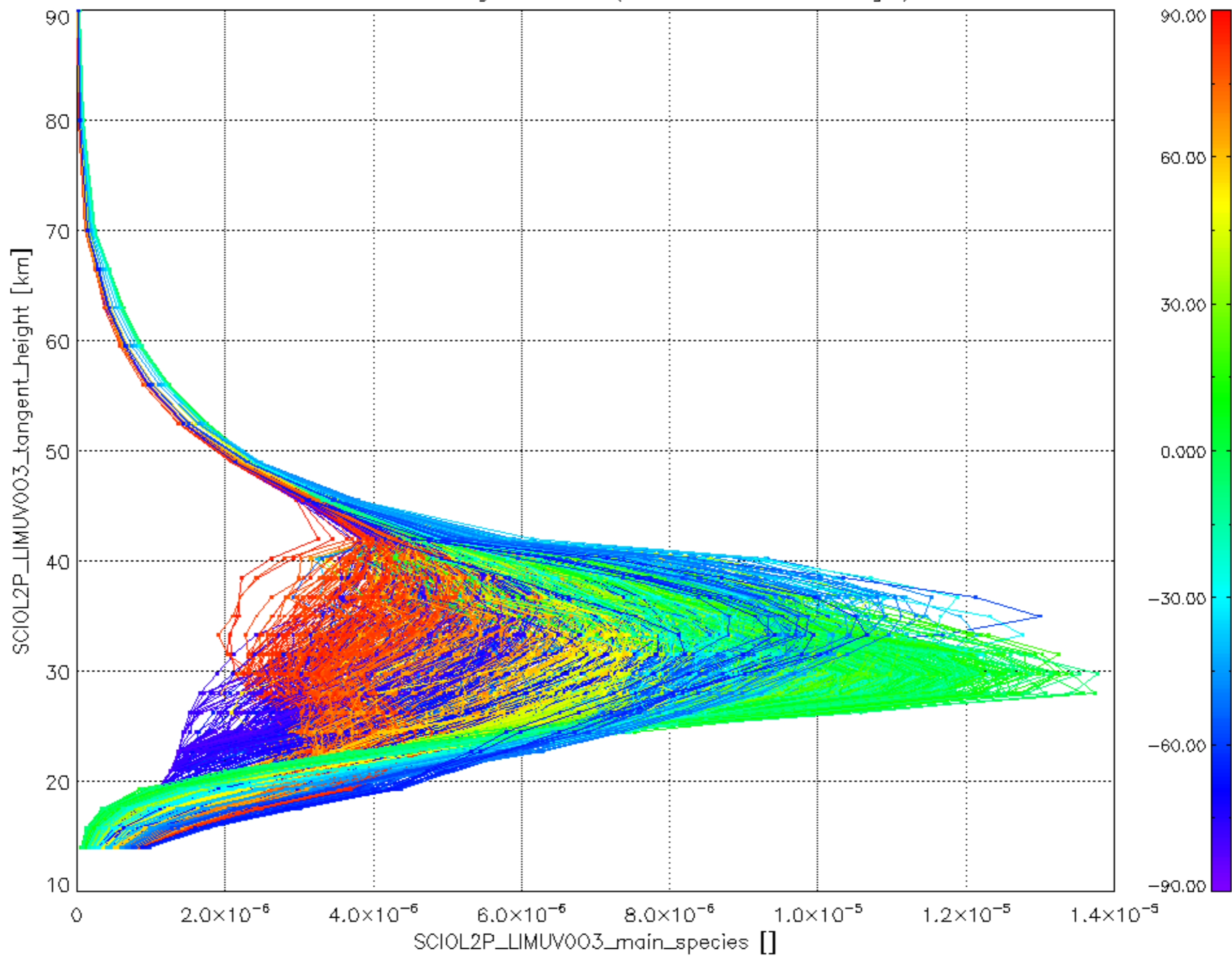
SCIOL2P_NADIR3CO_vcd for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



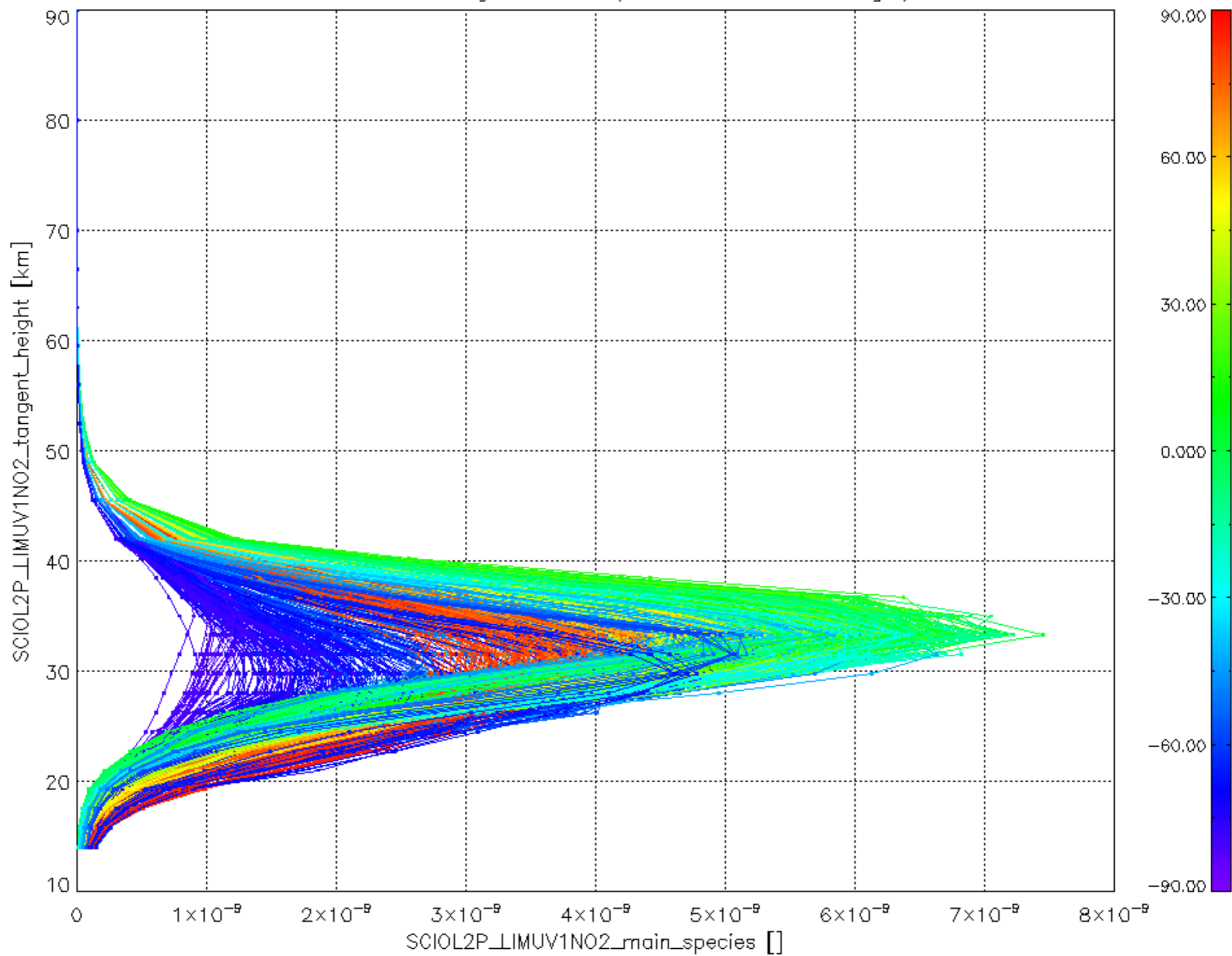
SCIOL2P_NADIR3CO_vcd_err for 26SEP2011 00:00:00 to 27SEP2011 00:00:00



Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).

